



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

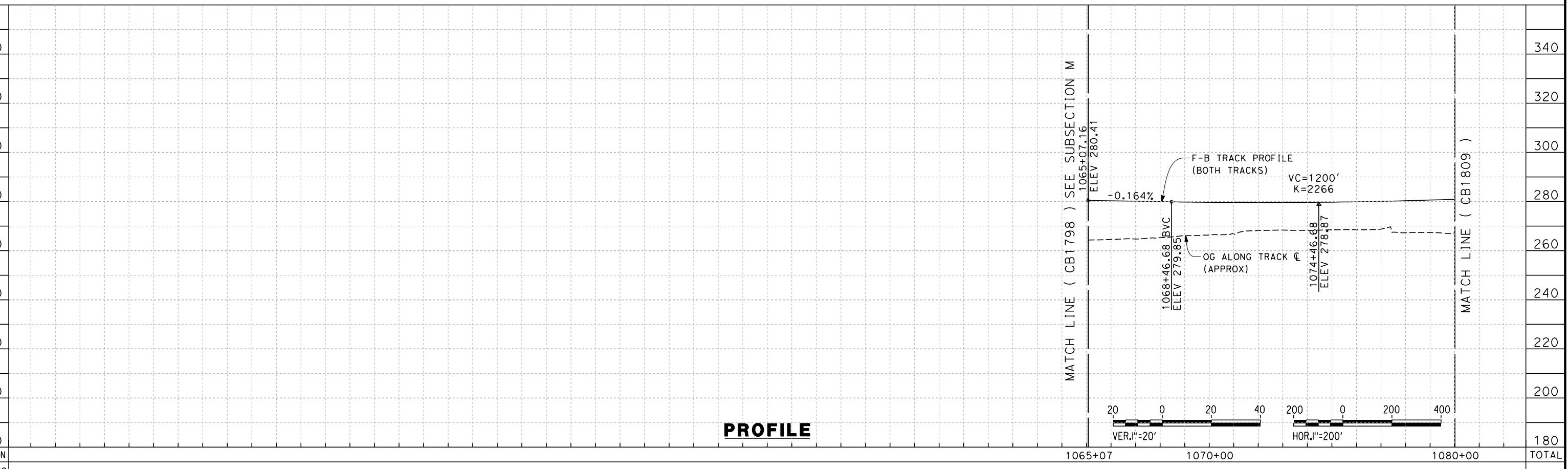
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1065+07 TO 2144+63
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1800
SCALE
AS SHOWN
SHEET NO.
1 OF 31

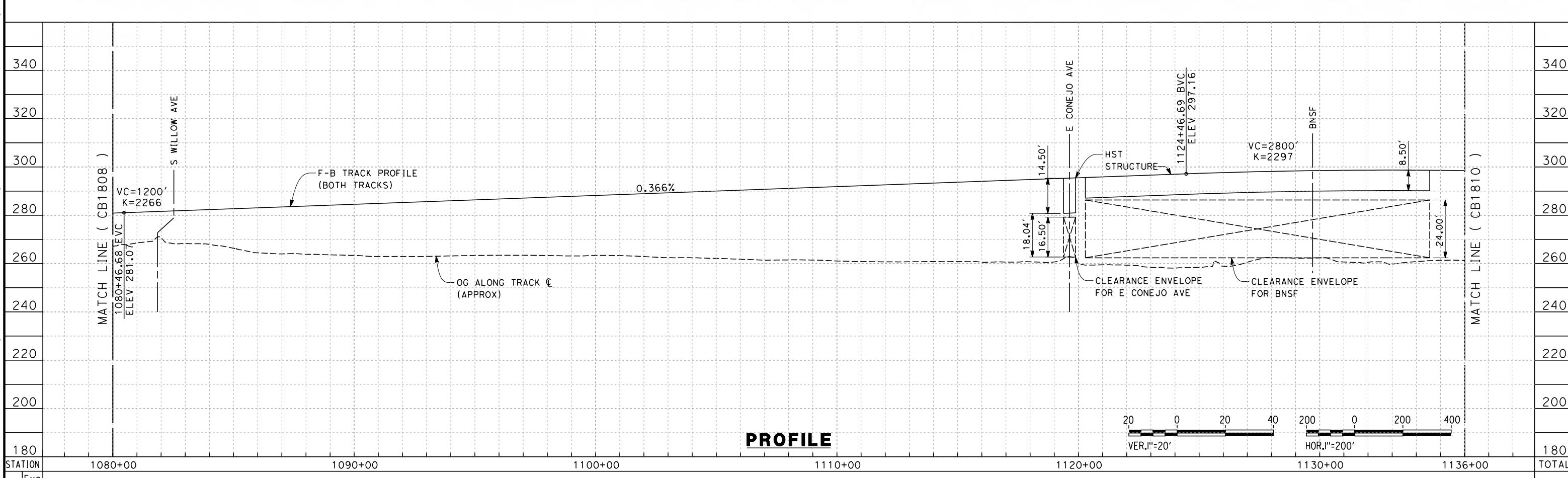
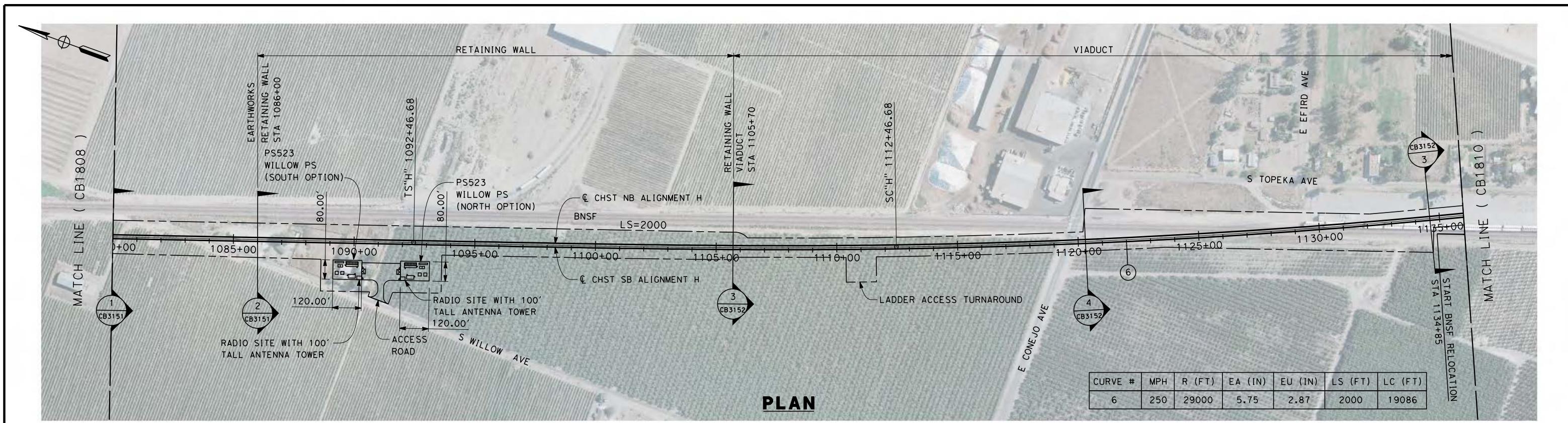


DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN
CHECKED BY K. SEYMORE	NOT FOR CONSTRUCTION	
IN CHARGE R. COFFIN		
DATE 12/31/13		
REV DATE BY CHK APP	DESCRIPTION	

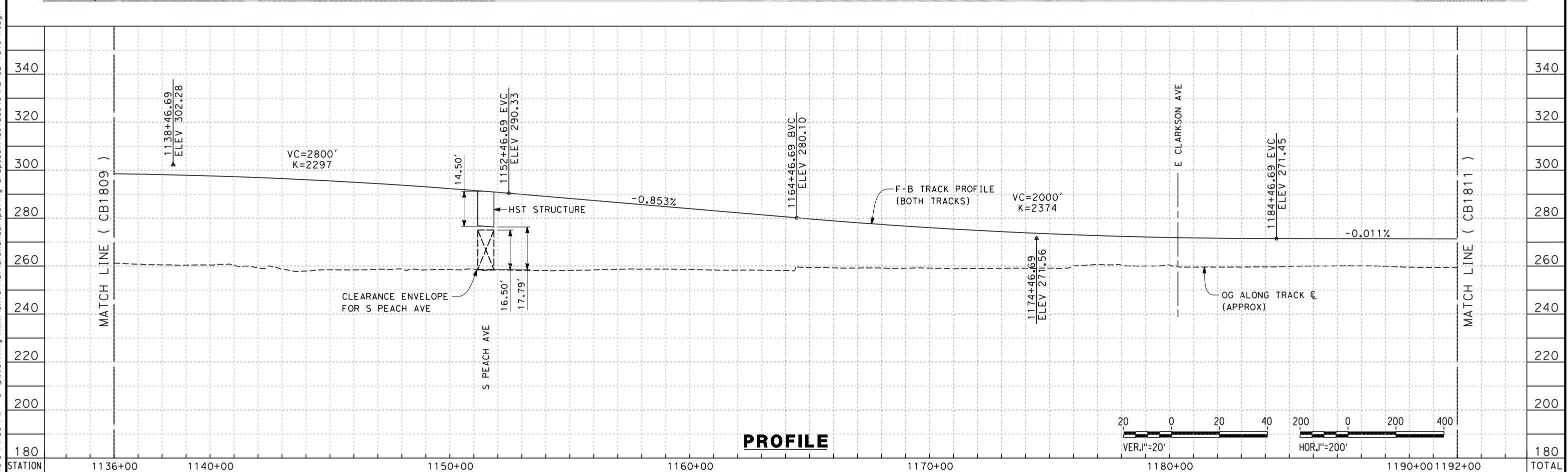
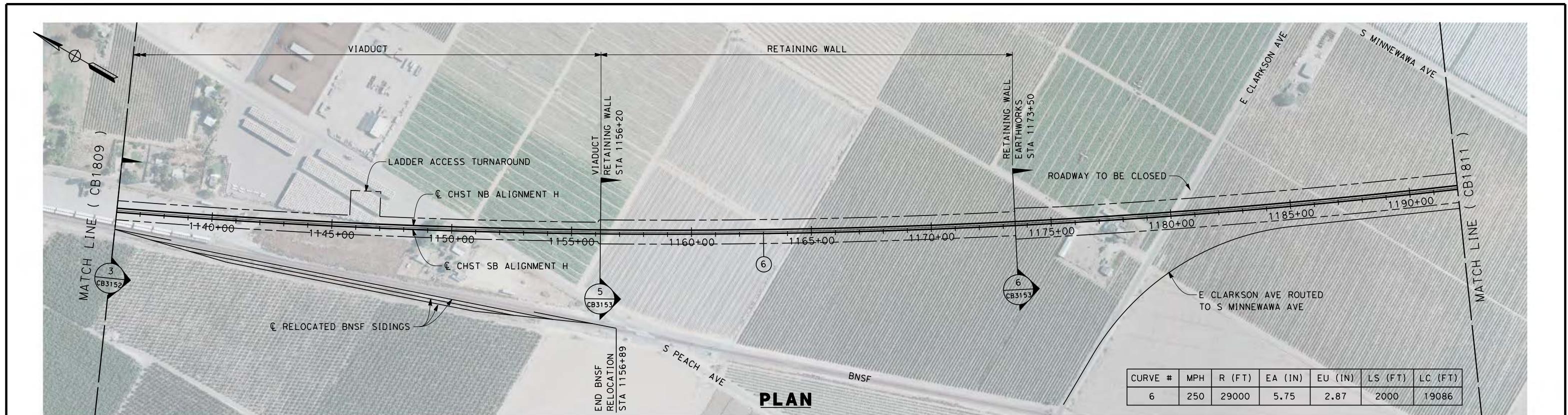


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1065+07 TO 1080+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1808
SCALE
AS SHOWN
SHEET NO.
2 OF 31



DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN	HANFORD SUBSECTION ALIGNMENT H	DRAWING NO. CB1809
CHECKED BY K. SEYMORE	NOT FOR CONSTRUCTION		STA. 1080+00 TO 1136+00	SCALE AS SHOWN
IN CHARGE R. COFFIN			PLAN AND PROFILE	SHEET NO. 3 OF 31
REV DATE BY CHK APP	DESCRIPTION	DATE 12/31/13		



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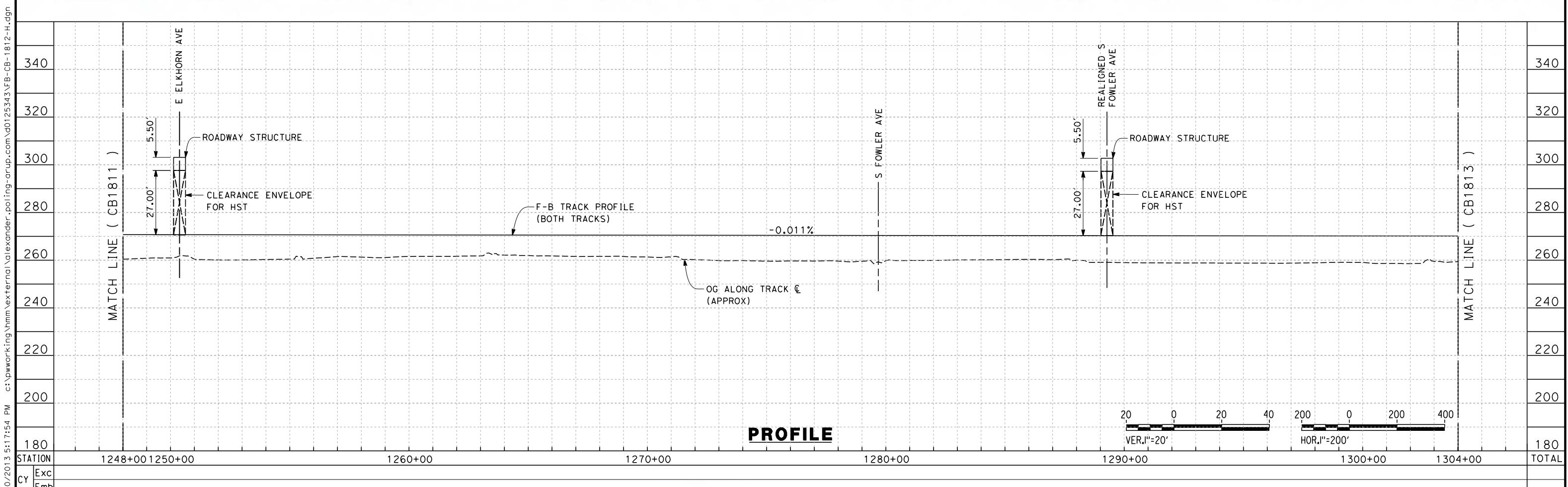
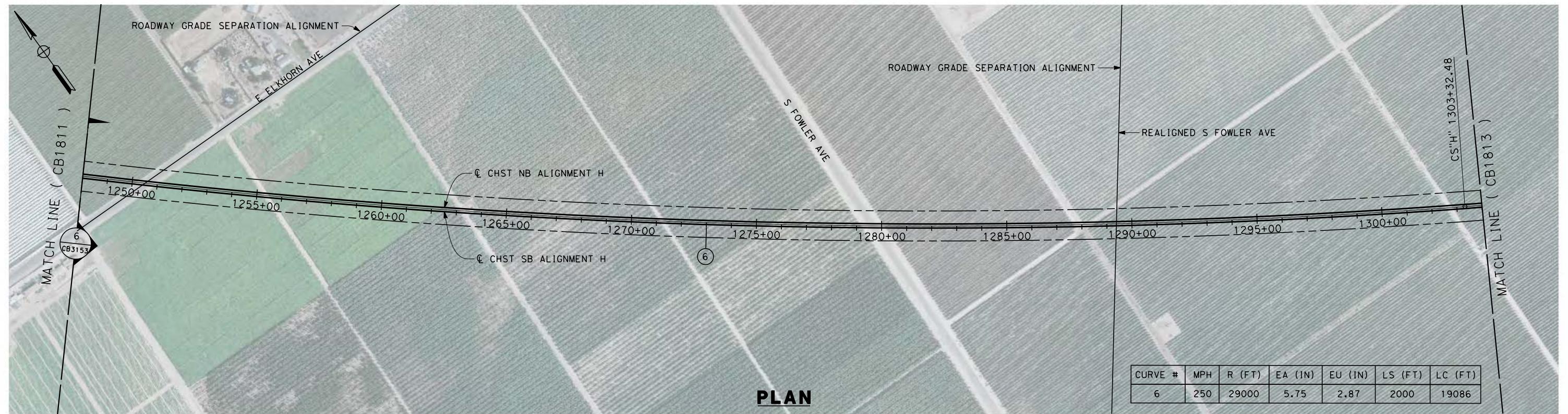
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYOUR
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1136+00 TO 1192+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1810
SCALE
AS SHOWN
SHEET NO.
4 OF 31



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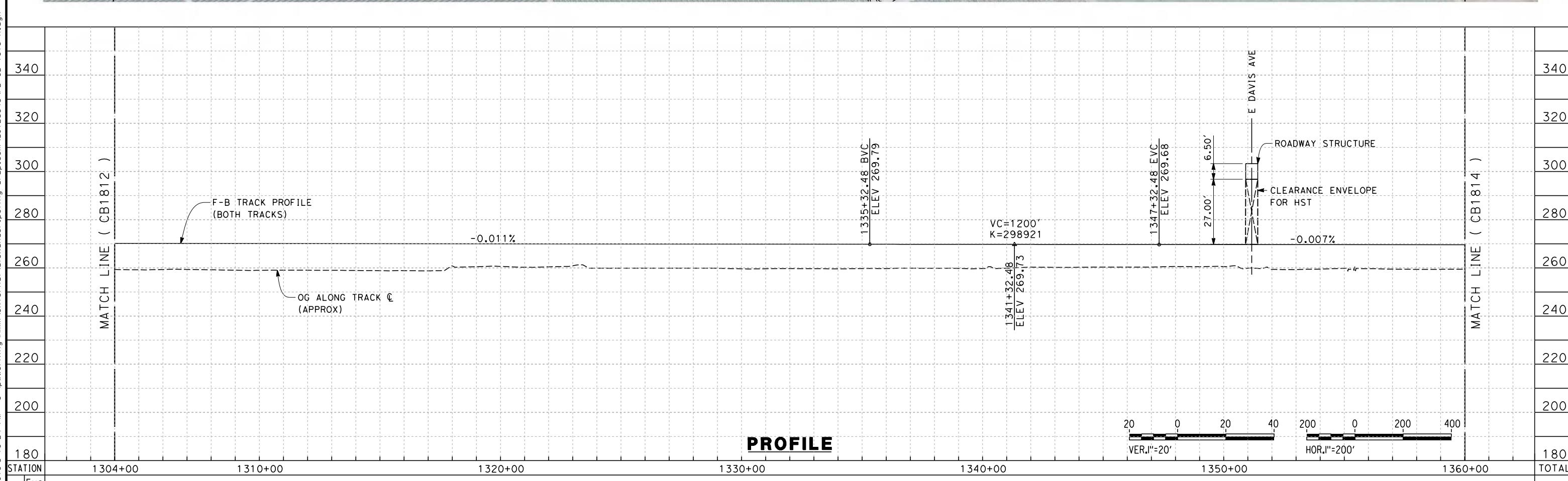
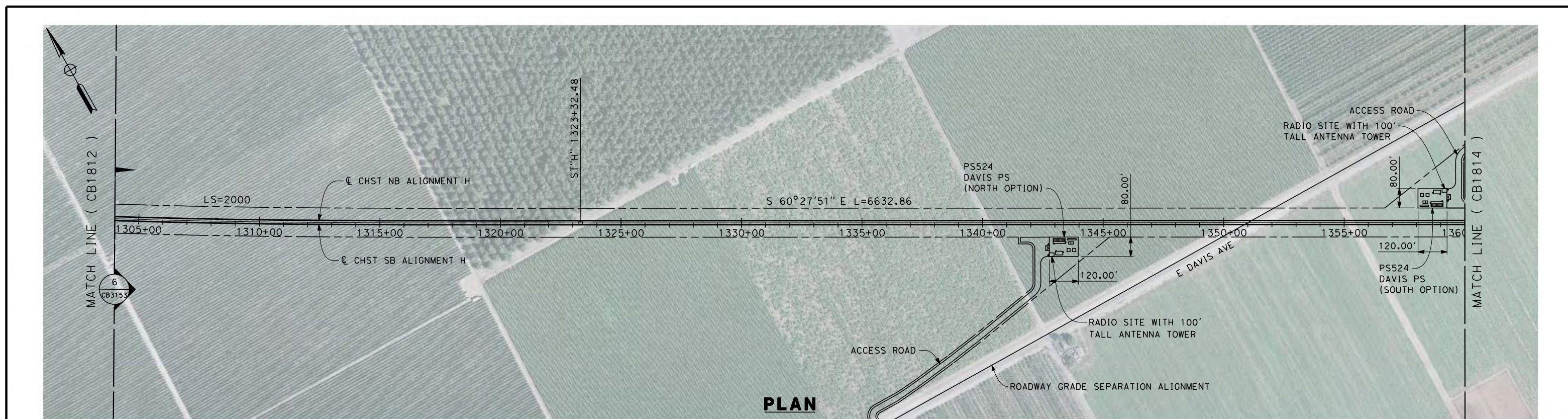
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA 1248+00 TO 1304+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1812
SCALE
AS SHOWN
SHEET NO.
6 OF 31



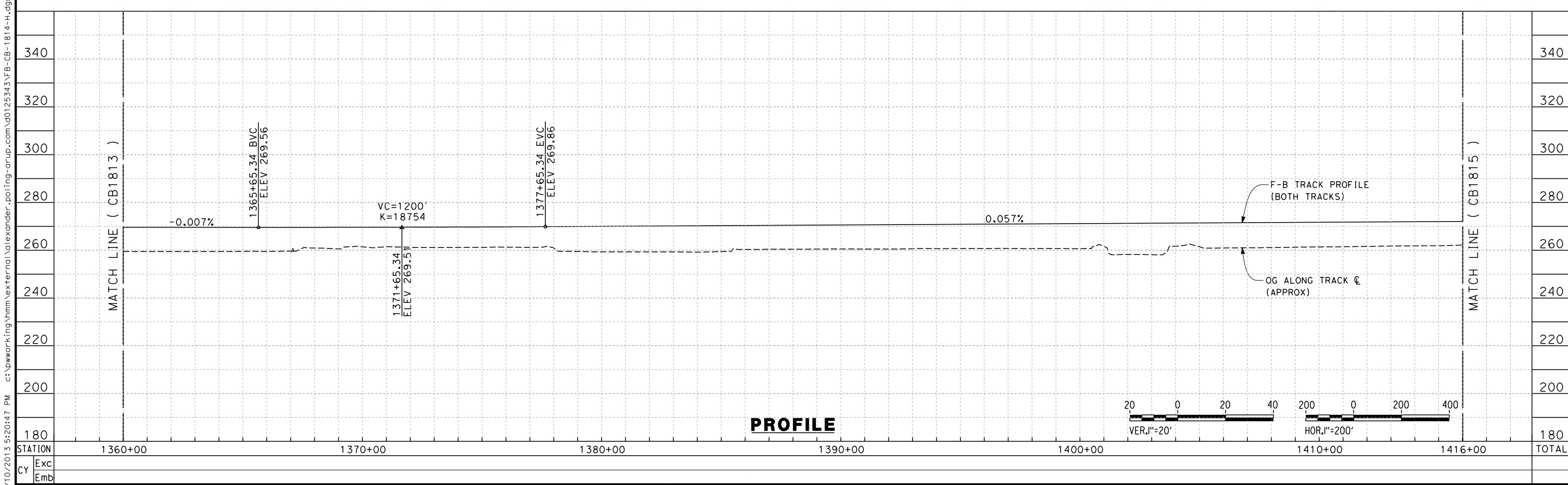
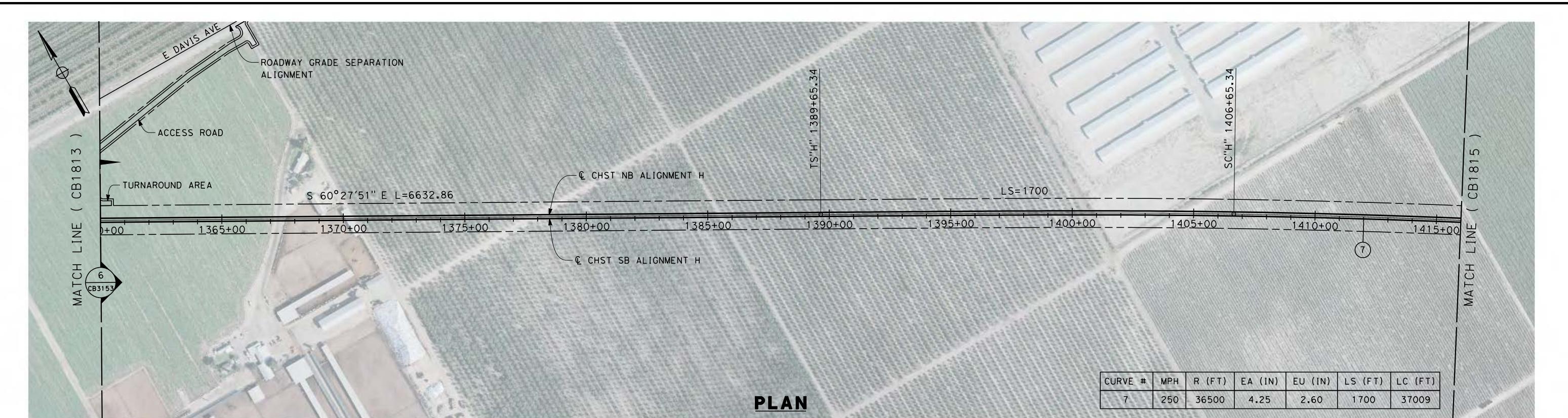
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DRAWN BY J. BORGHESI	-					
CHECKED BY K. SEYMOUR						
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION					
DATE 12/31/13		CALIFORNIA HIGH-SPEED RAIL AUTHORITY				
REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1304+00 TO 1360+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1813
SCALE
AS SHOWN
SHEET NO.
7 OF 31



alexander	poling	12
REV	DATE	BY
		CHK

DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
K. SE
IN CHARGE
R. CO
DATE 12

**RECORD SET 1
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

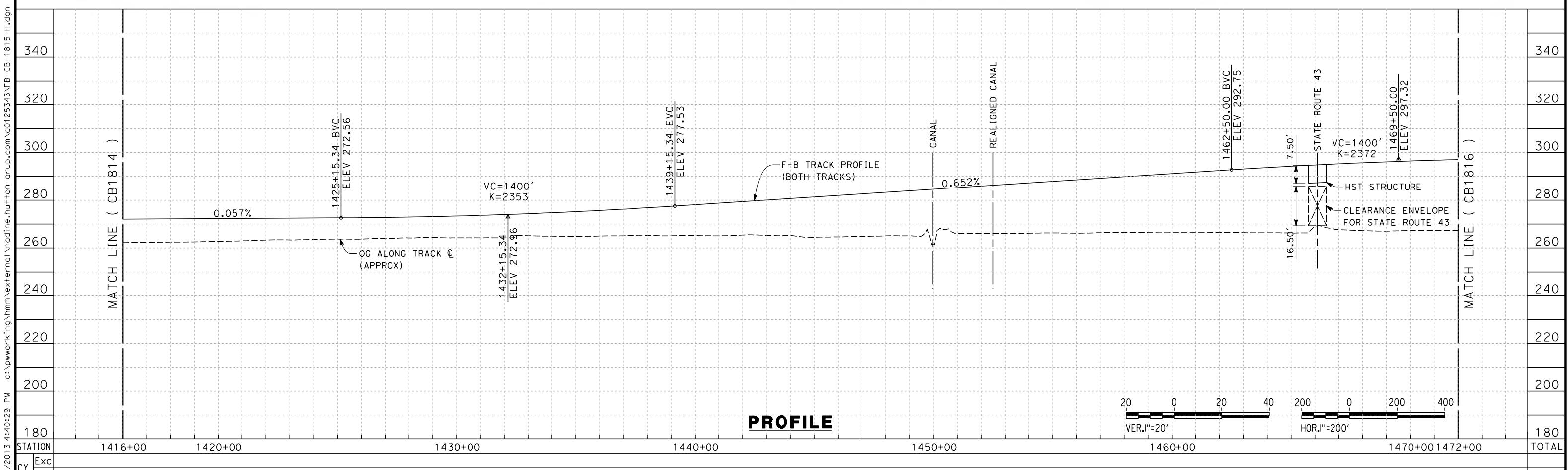
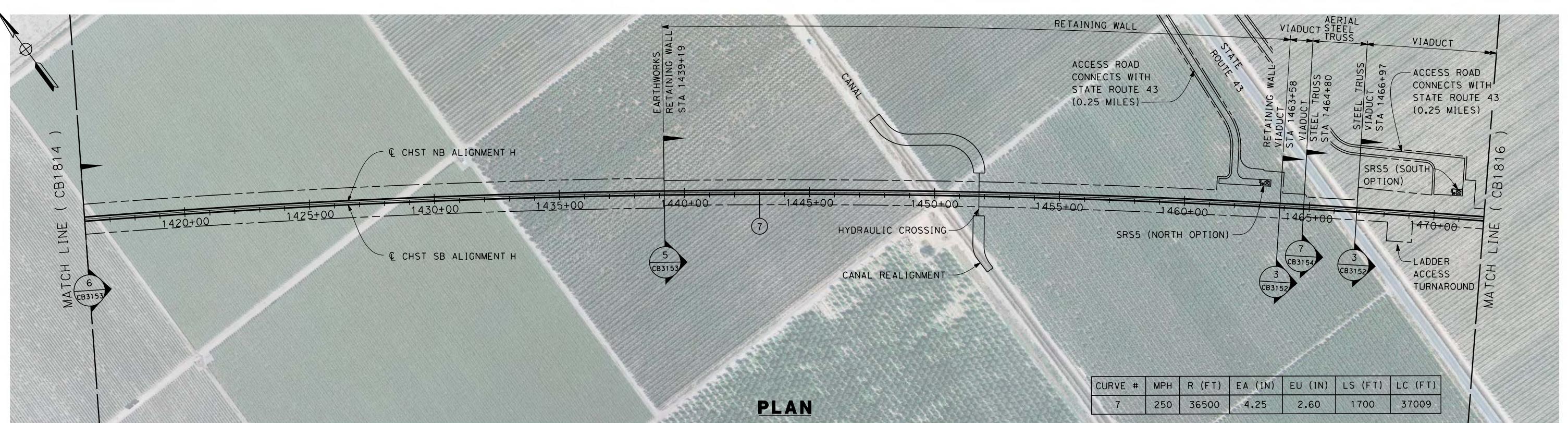


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H

STA. 1360+00 TO 1416+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1814
SCALE
AS SHOWN
SHEET NO.
8 OF 31



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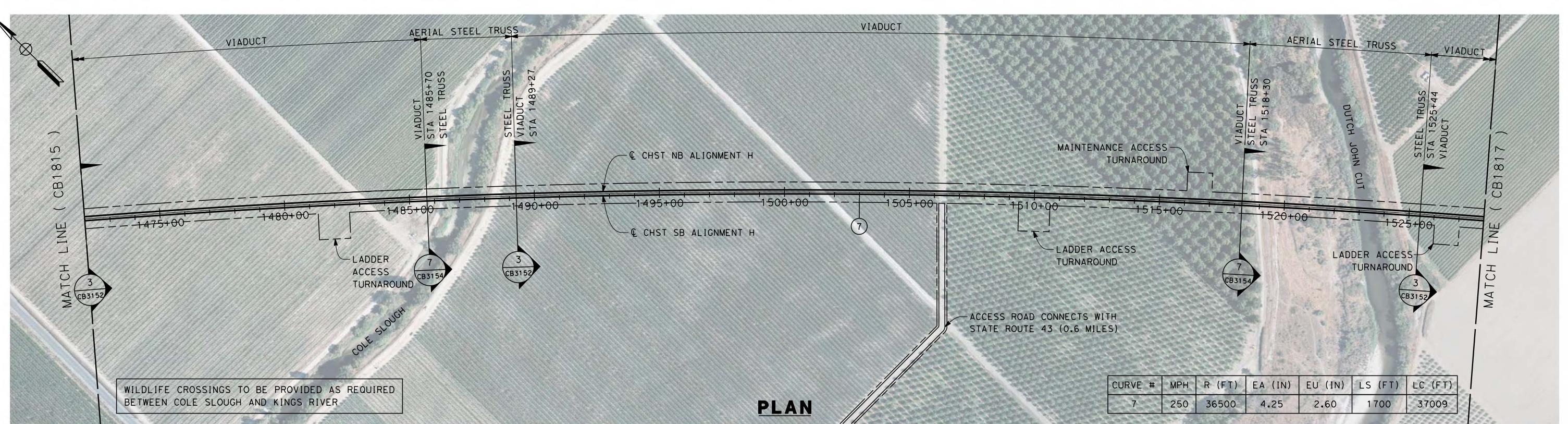
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYOUR
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

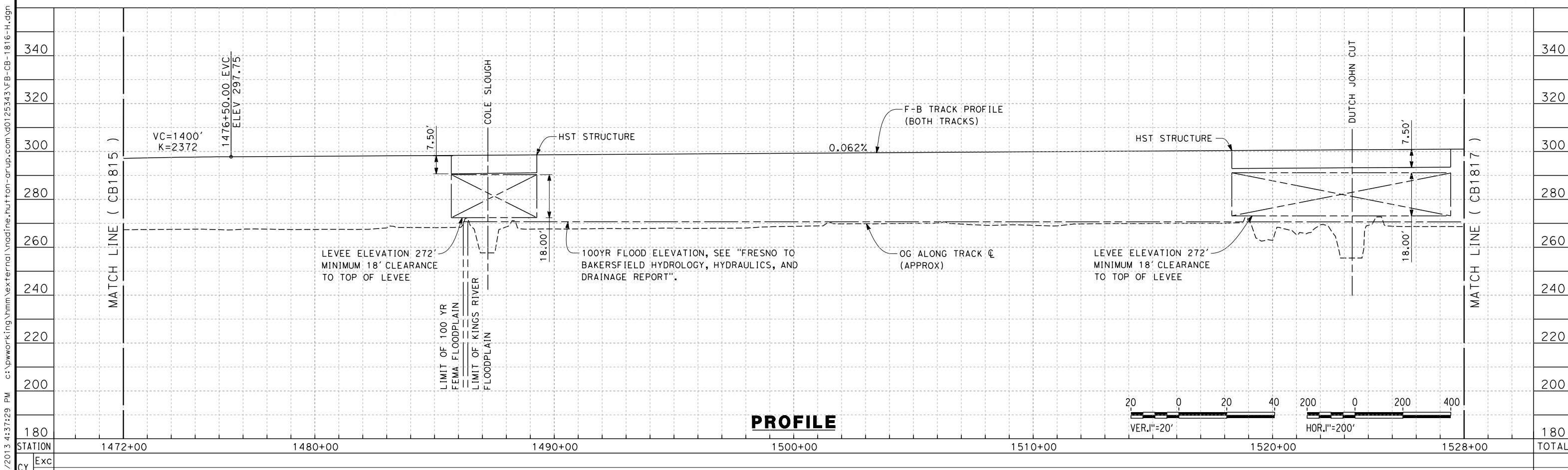


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1416+00 TO 1472+00
PLAN AND PROFILE

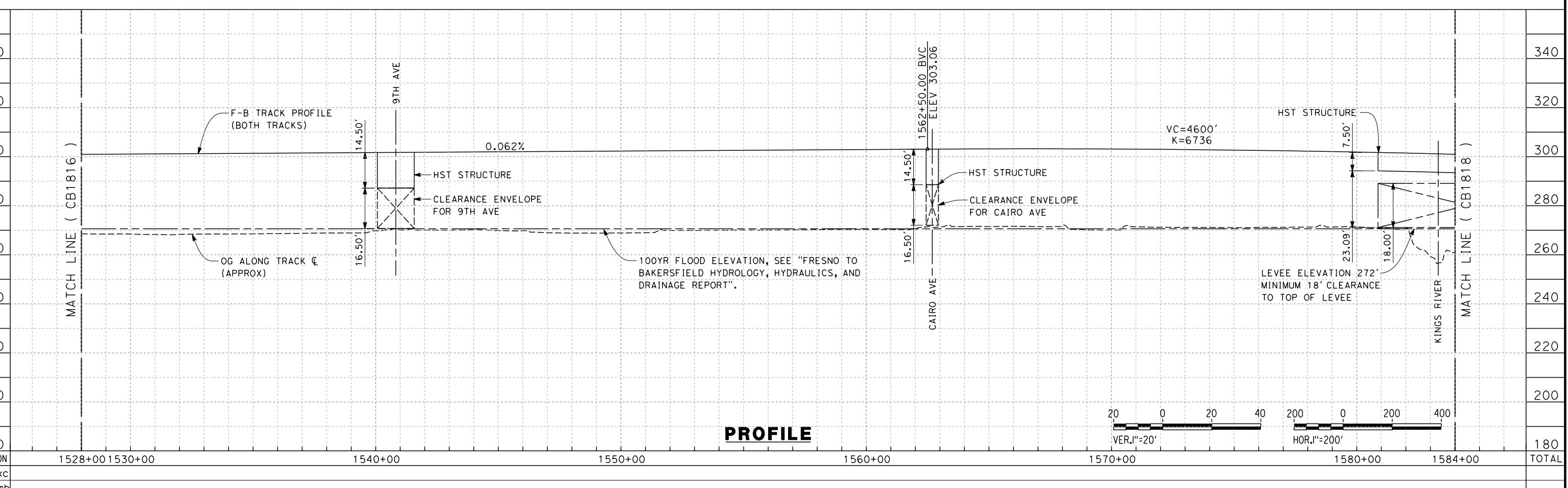
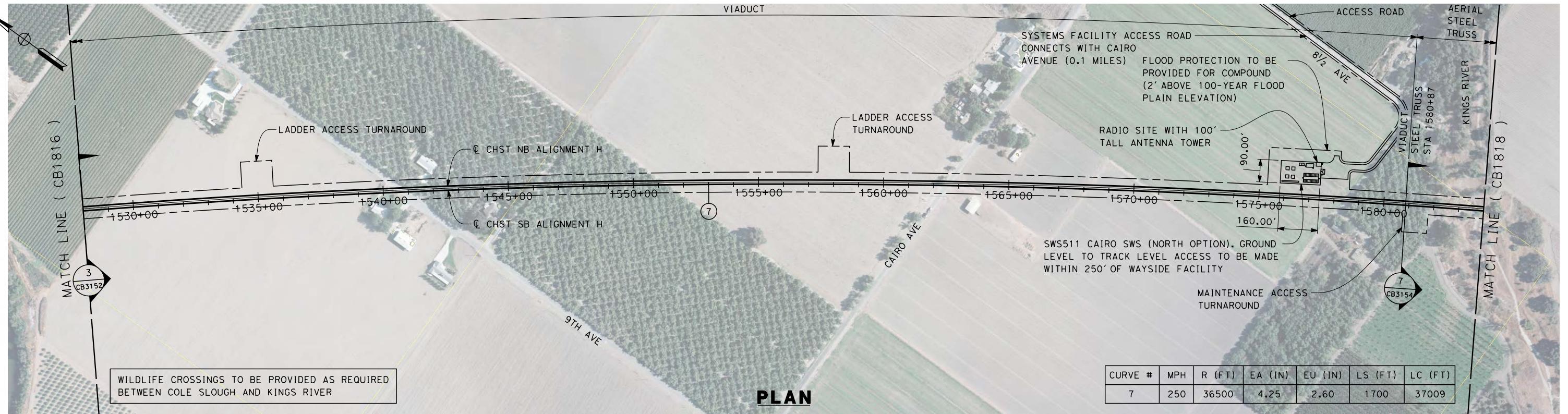
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1815
SCALE
AS SHOWN
SHEET NO.
9 OF 31

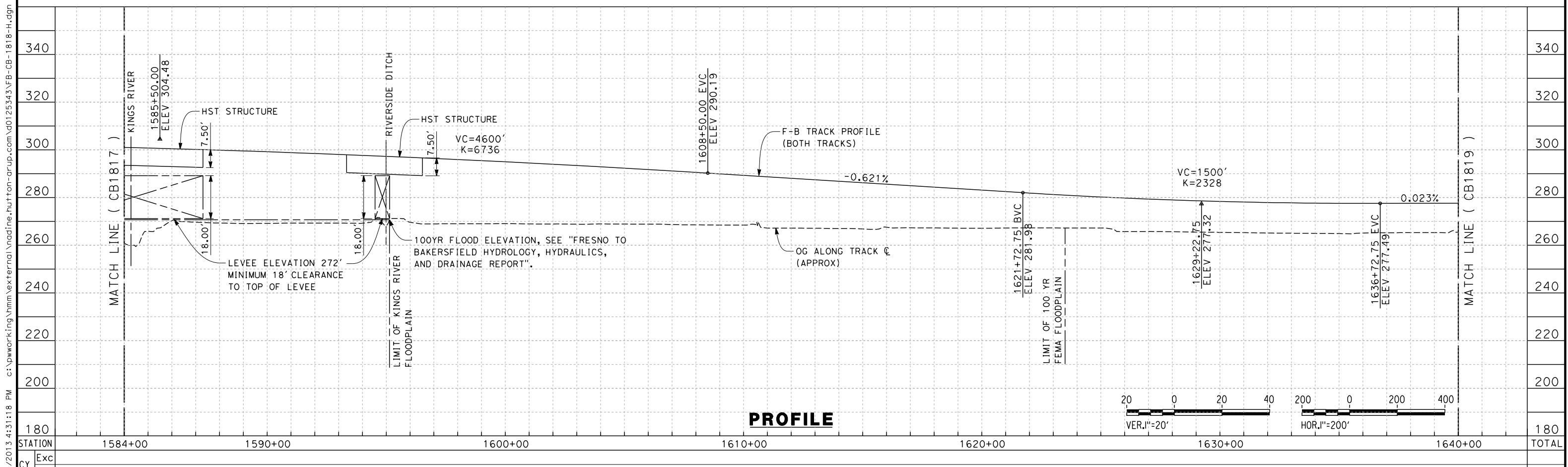
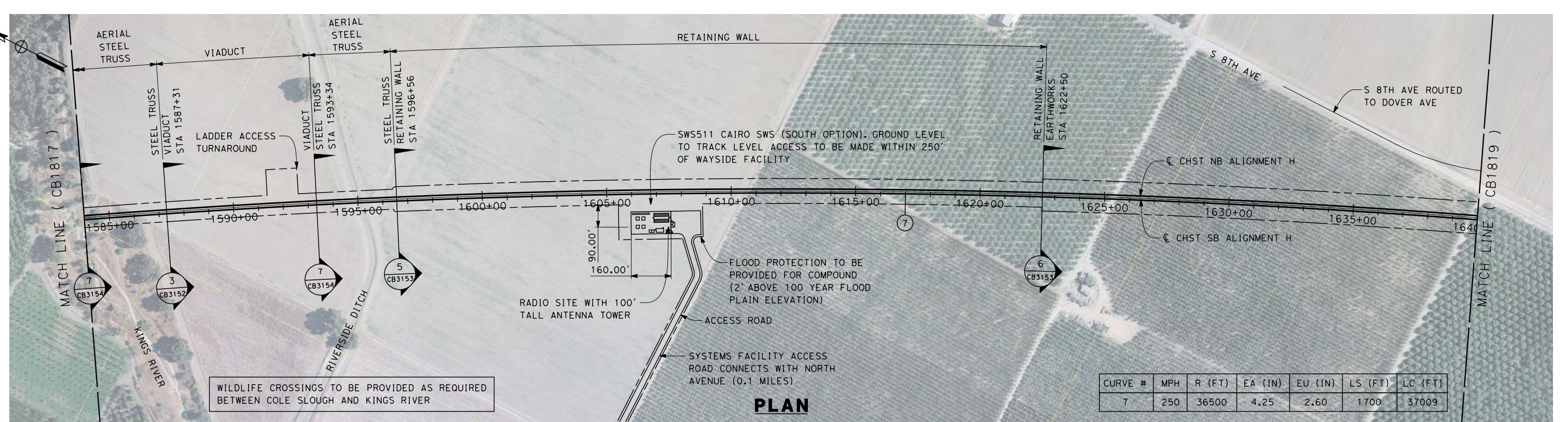


PLAN



PROFILE





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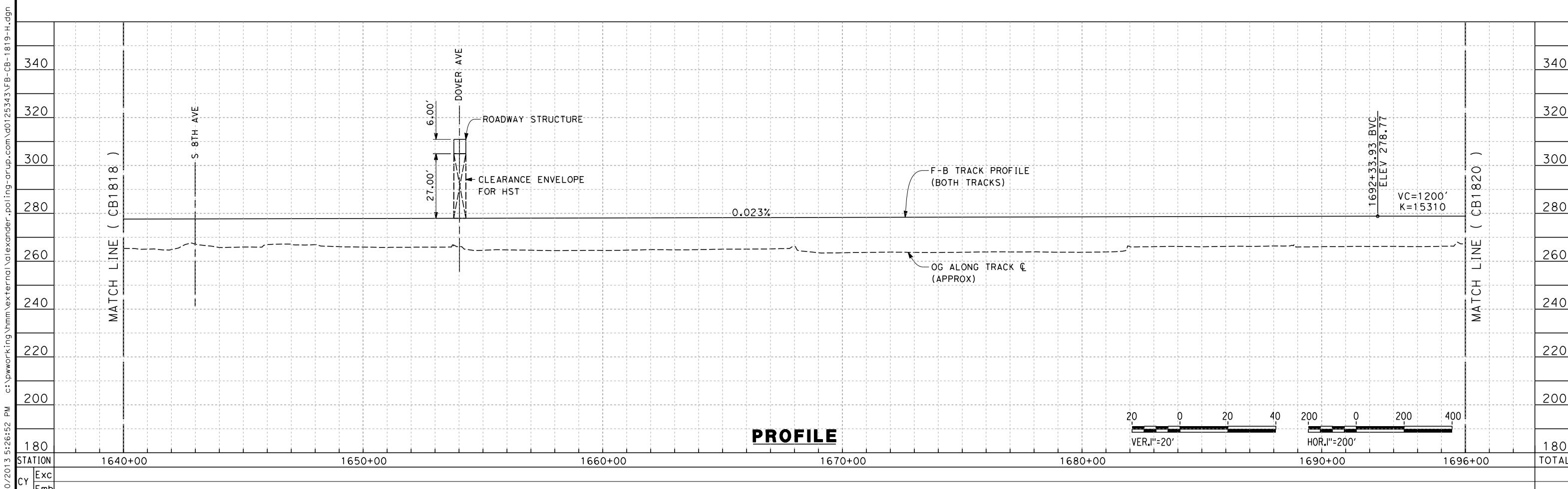
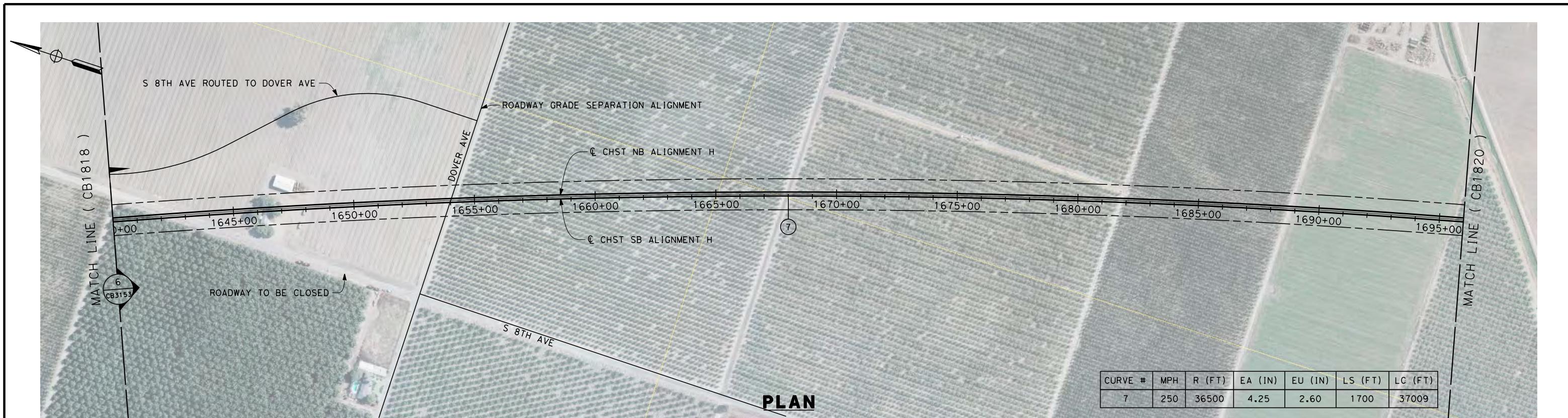
DESIGNED BY
A. POLING
DRAWN BY
J. BORGES
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE

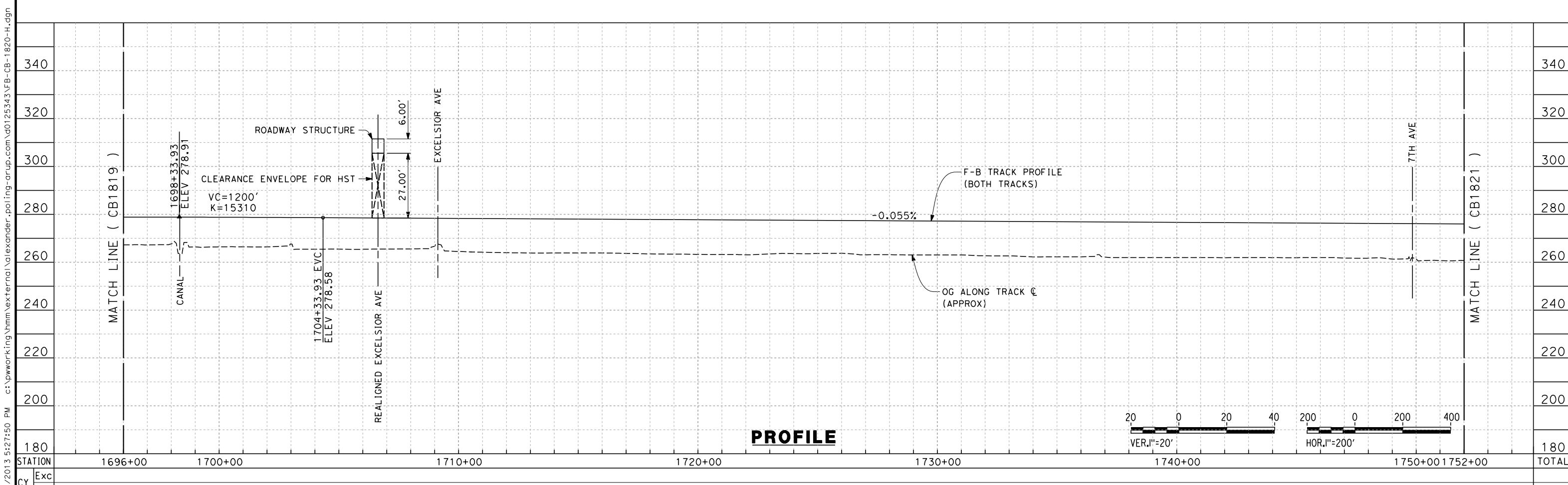
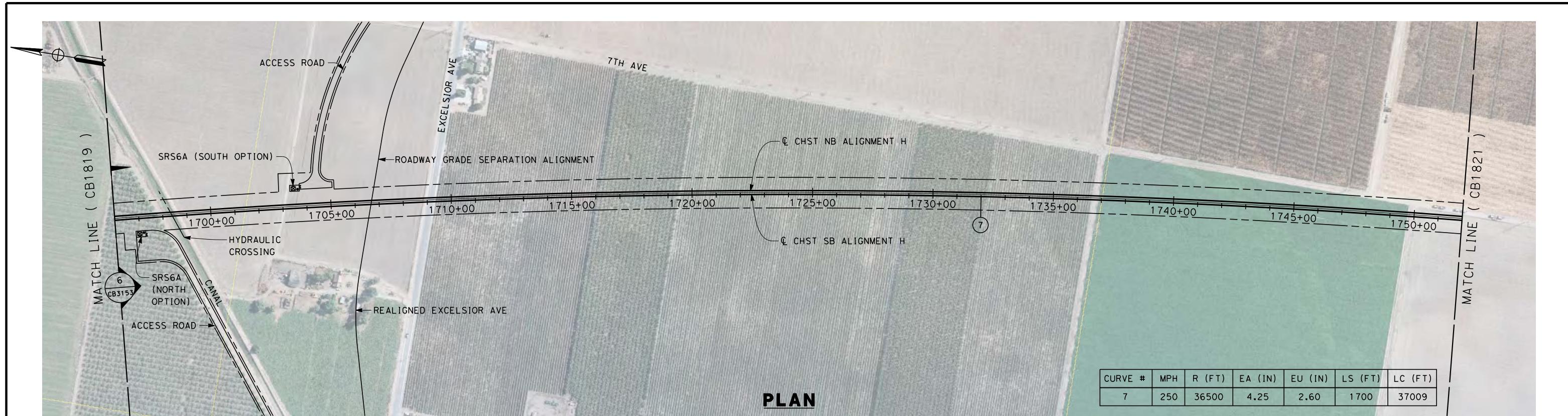
RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1584+00 TO 1640+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1818
SCALE
AS SHOWN
SHEET NO.
12 OF 31





alexander.poling 12/10/2013 5:27:50 PM c:\p\working\hmm\external\alexander.poling-arup.com\d0125343\FB-CB-1820-H.dgn

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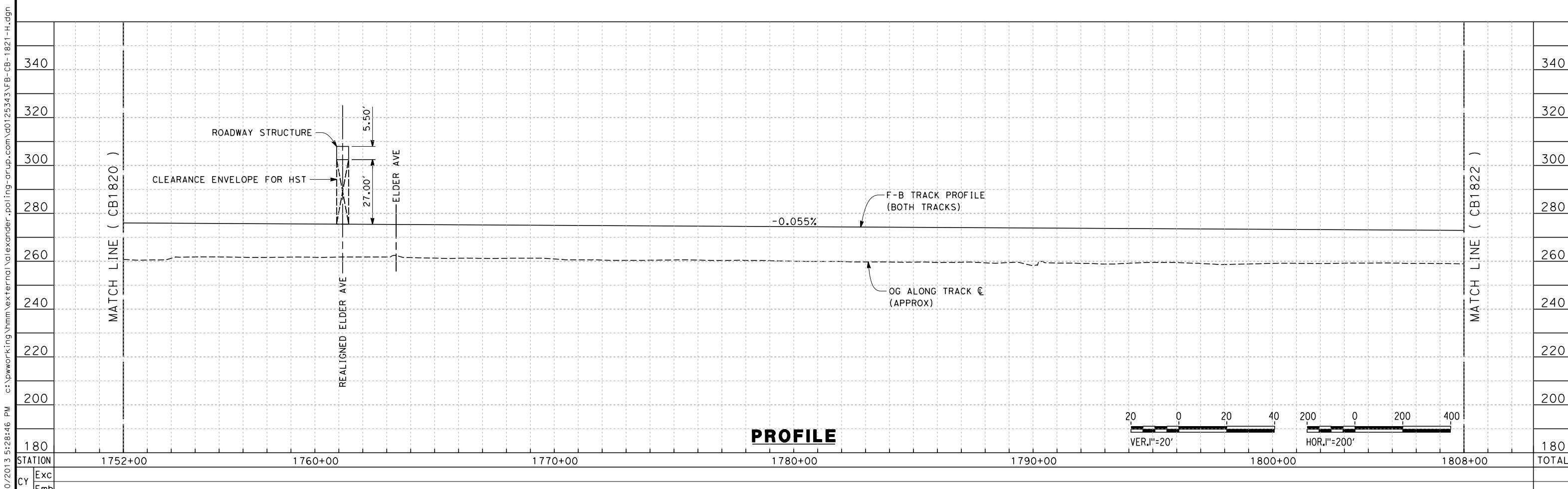
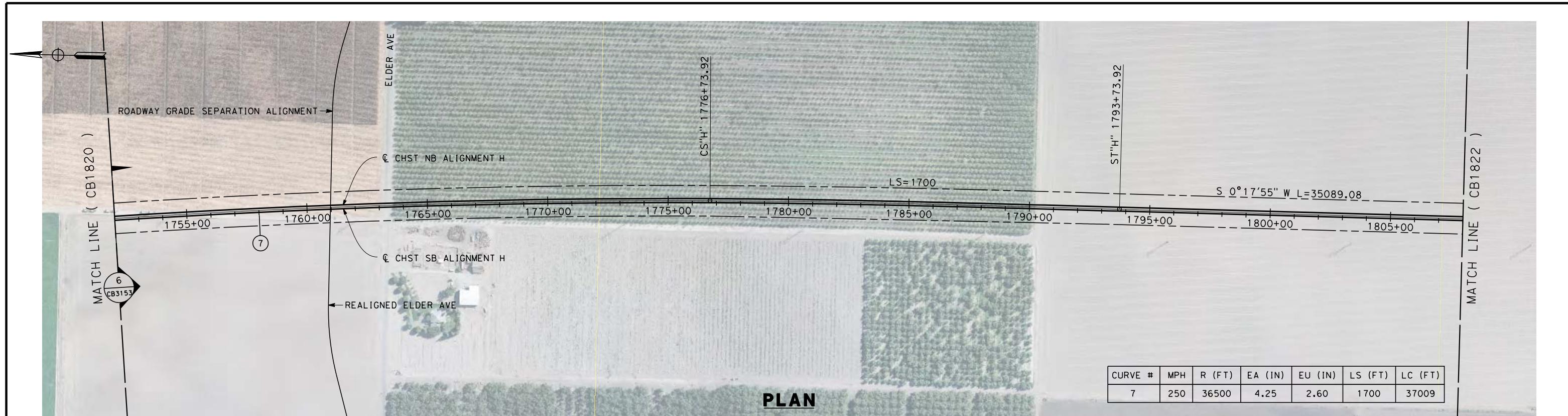
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

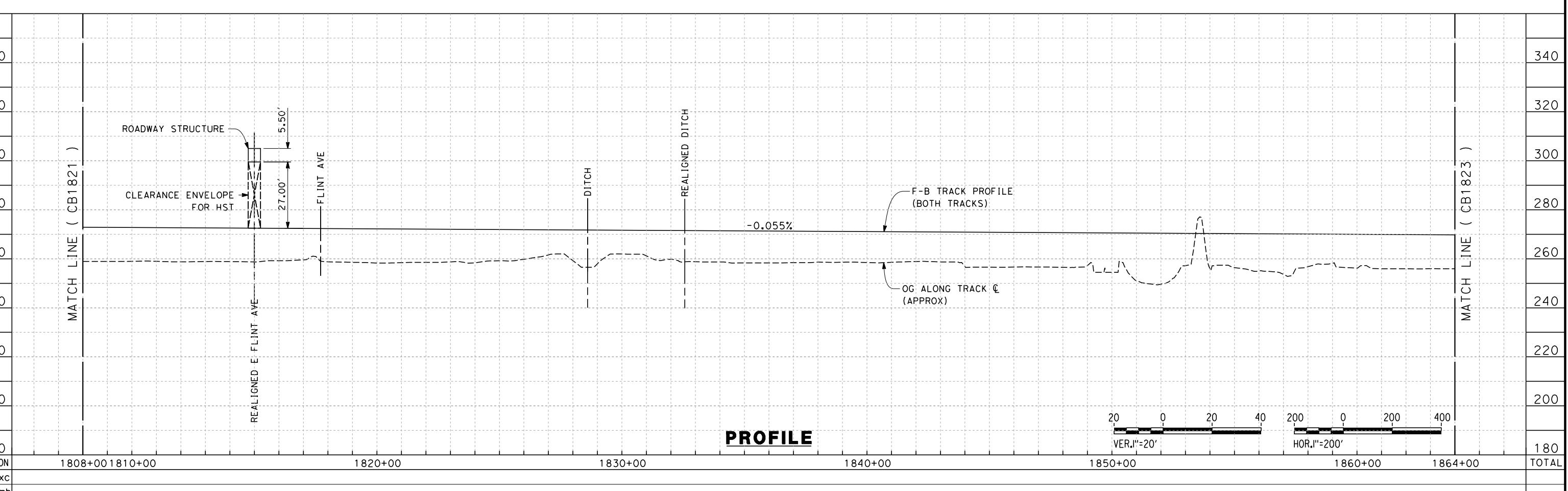
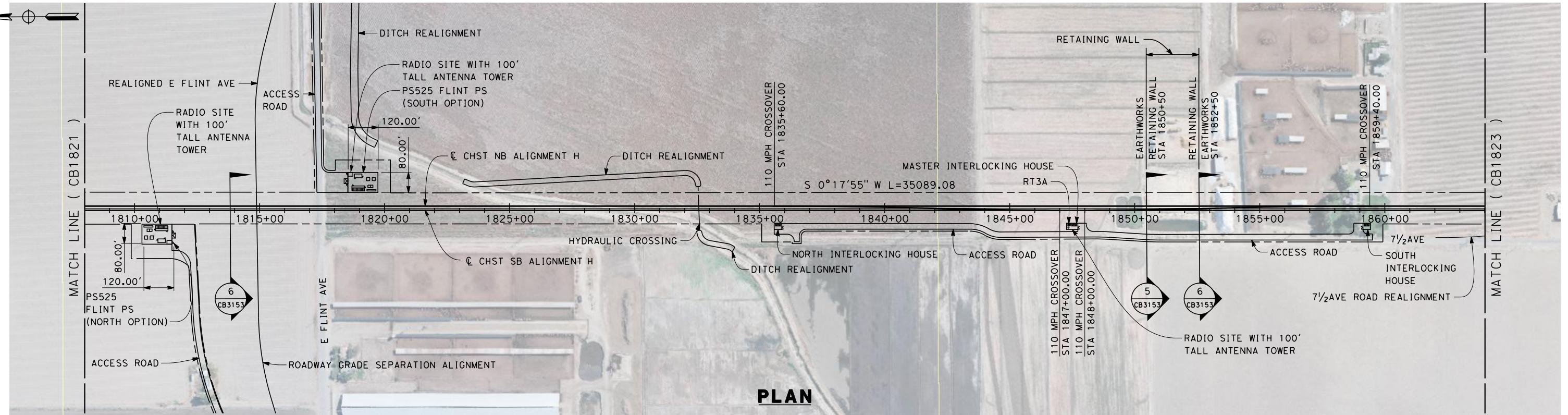


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1696+00 TO 1752+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1820
SCALE
AS SHOWN
SHEET NO.
14 OF 31



DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-			HANFORD SUBSECTION ALIGNMENT H	DRAWING NO. CB1821
CHECKED BY K. SEYMOUR	NOT FOR CONSTRUCTION			STA. 1752+00 TO 1808+00	SCALE AS SHOWN
IN CHARGE R. COFFIN				PLAN AND PROFILE	SHEET NO. 15 OF 31
DATE 12/31/13	DESCRIPTION 12/31/13				
REV DATE BY CHK APP					



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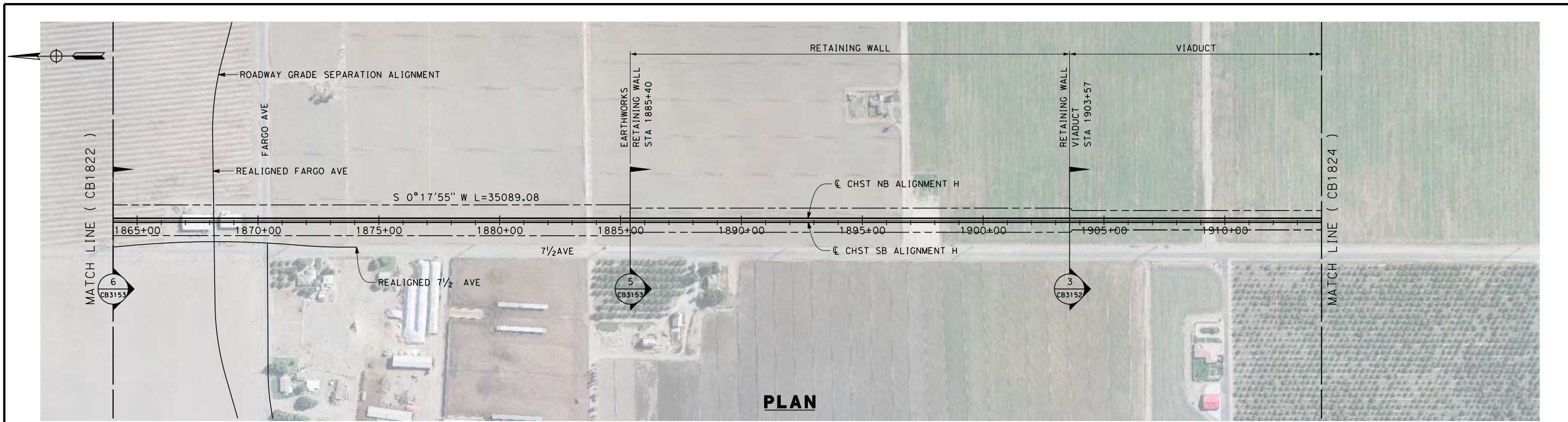
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
03/19/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

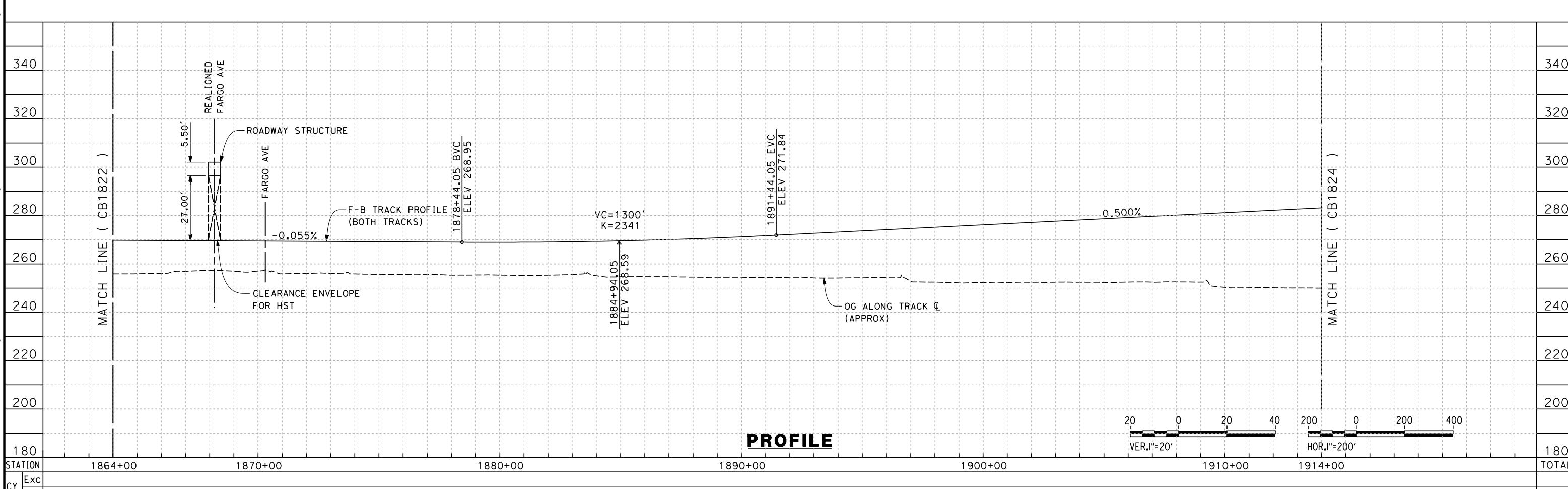


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1808+00 TO 1864+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1822
SCALE
AS SHOWN
SHEET NO.
16 OF 31



PLAN



PROFILE

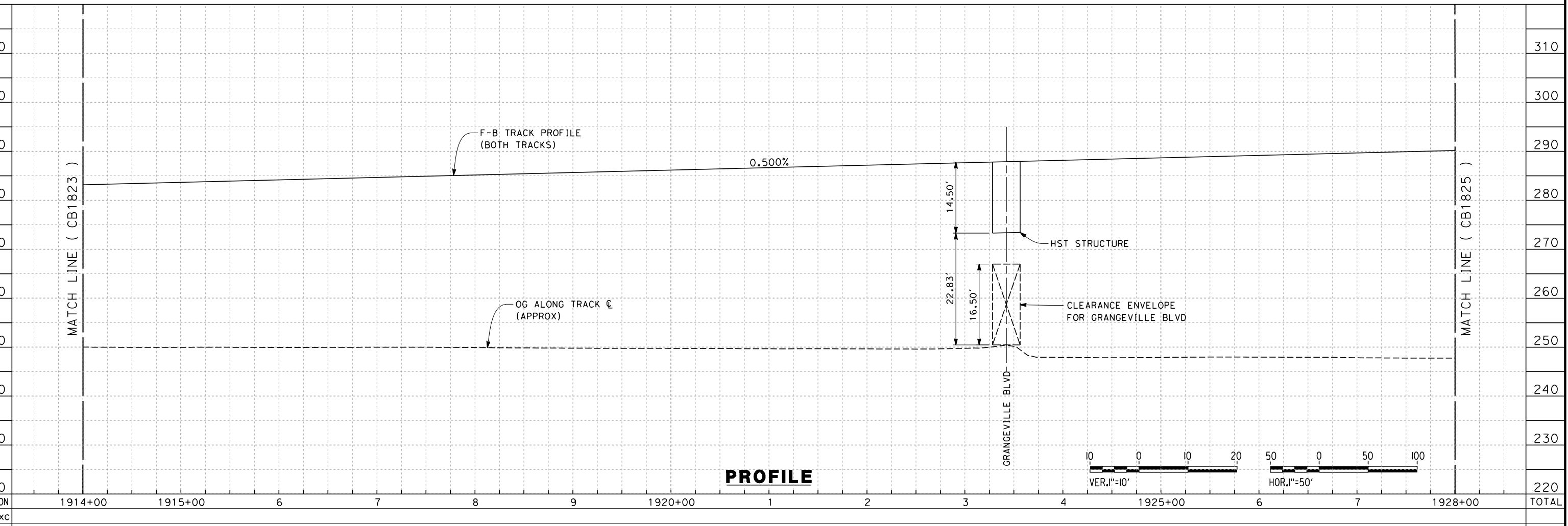
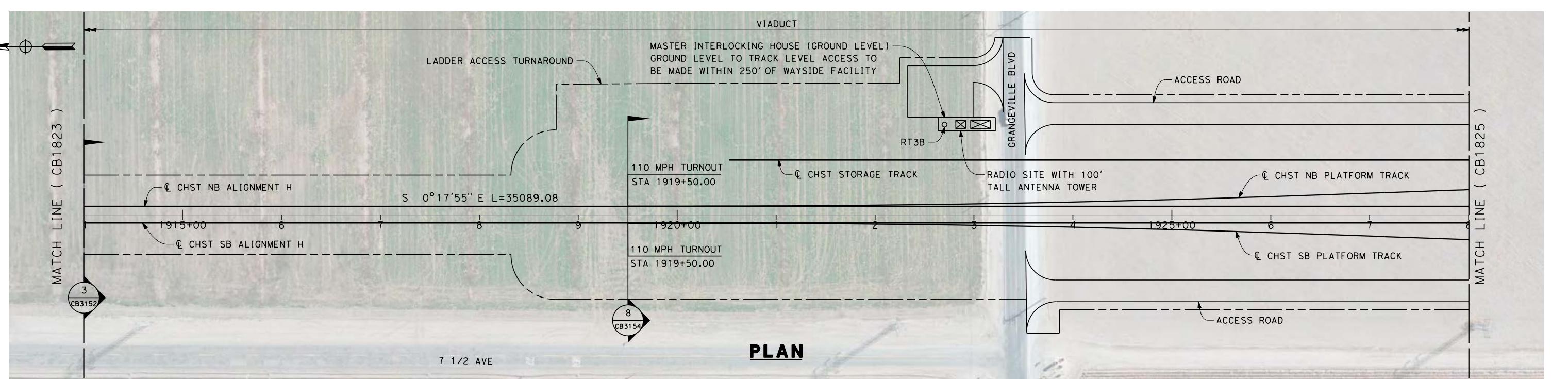
REV	DATE	BY	CHK	APP	DESIGNER		DRAWN BY J. BORGHESI	CHECKED BY K. SEYOUR	IN CHARGE R. COFFIN	DATE 12/31/13
					RECORD SET 15%	DESIGN SUBMISSION				
DESCRIPTION										

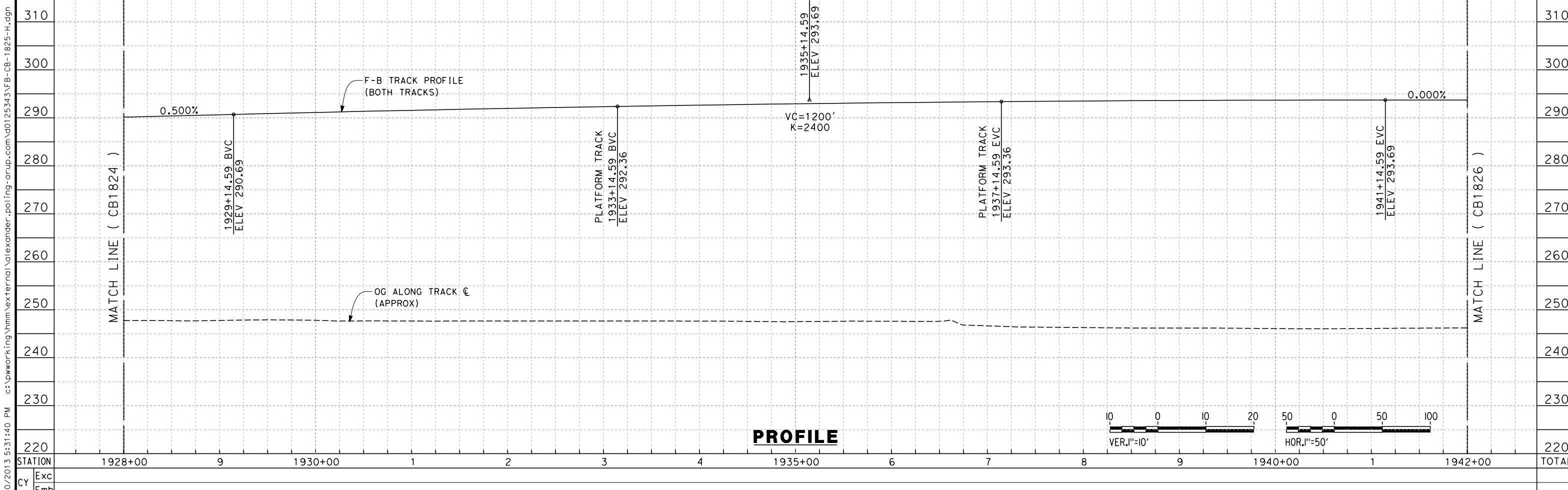
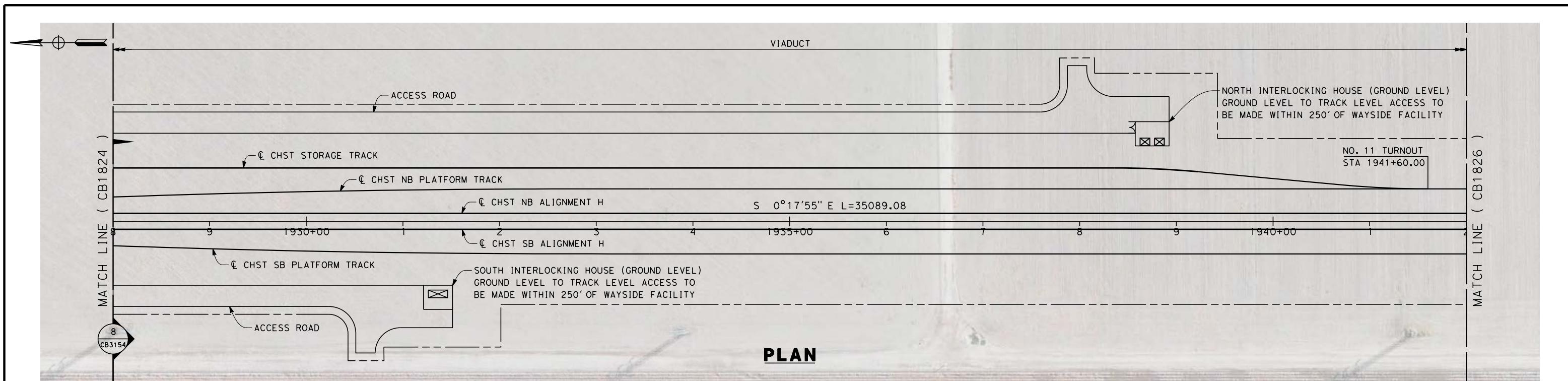
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DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



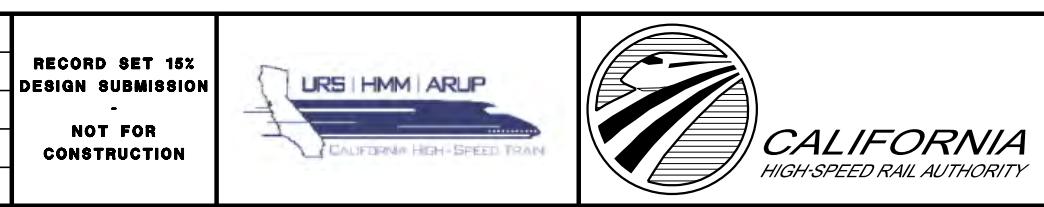
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1864+00 TO 1914+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1823
SCALE
AS SHOWN
SHEET NO.
17 OF 31



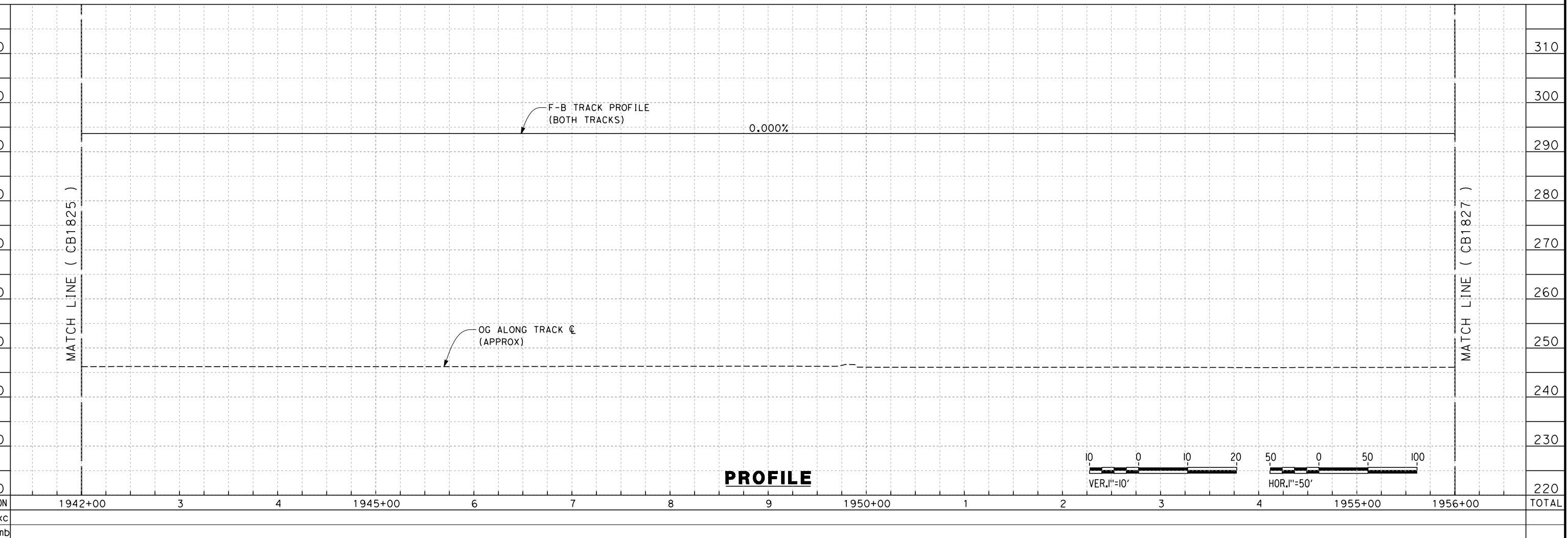
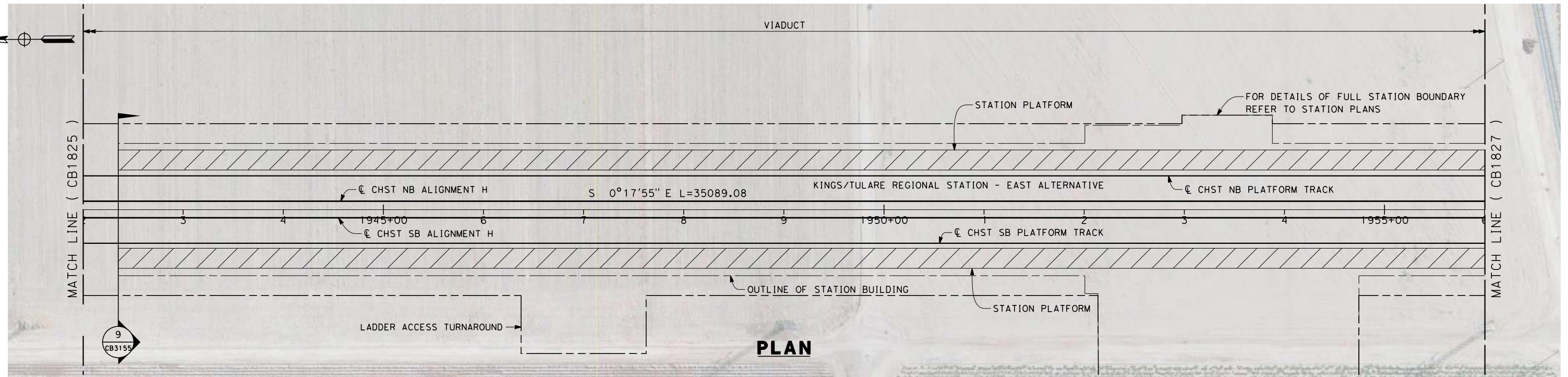


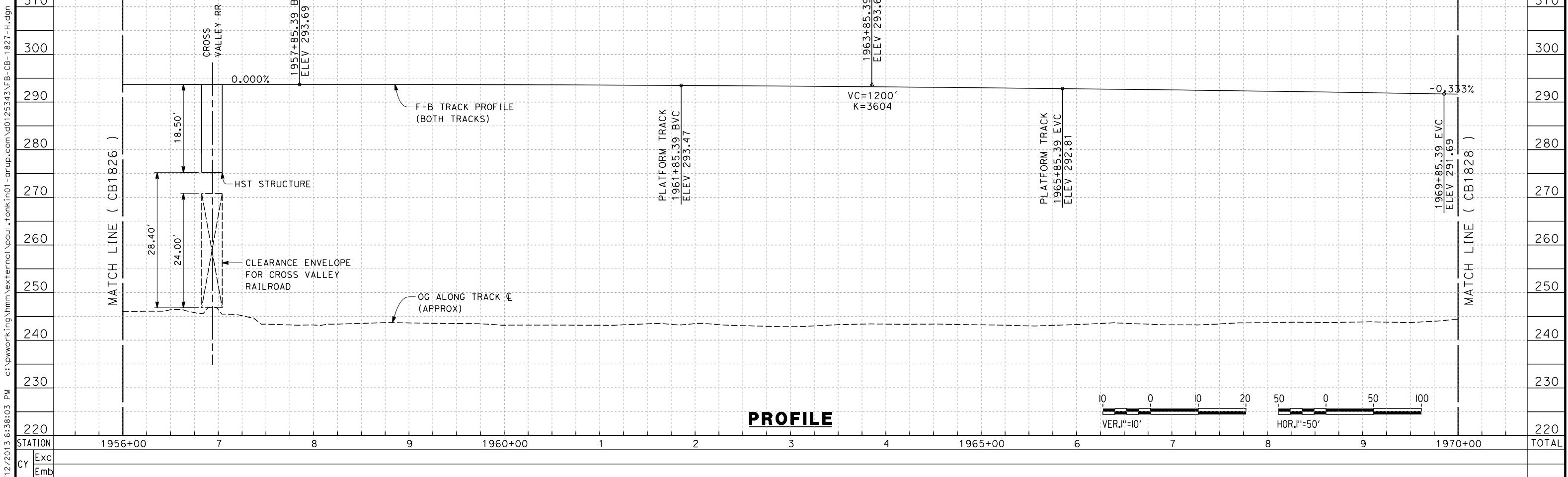
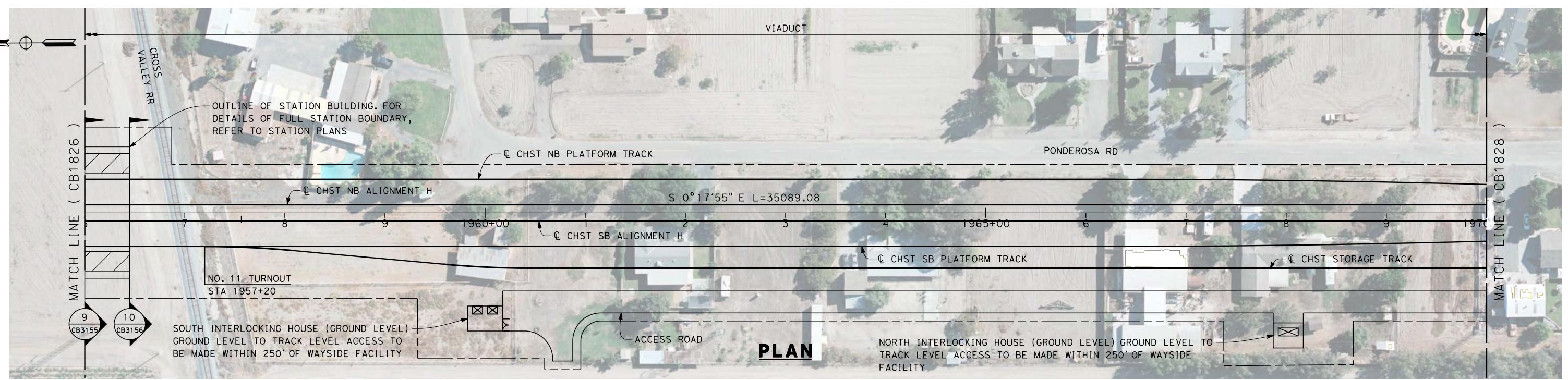
DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN
CHECKED BY K. SEYMOUR	NOT FOR CONSTRUCTION	
IN CHARGE R. COFFIN		
DATE 12/31/13		
REV DATE BY CHK APP	DESCRIPTION	



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
HANFORD SUBSECTION
ALIGNMENT H
STA. 1928+00 TO 1942+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1825
SCALE
AS SHOWN
SHEET NO.
19 OF 31





DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN
CHECKED BY K. SEYMOUR	NOT FOR CONSTRUCTION	
IN CHARGE R. COFFIN		CALIFORNIA HIGH-SPEED RAIL AUTHORITY
DATE 12/31/13		

REV DATE BY CHK APP

DESCRIPTION

12/31/13

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD

HANFORD SUBSECTION
ALIGNMENT H

STA. 1956+00 TO 1970+00

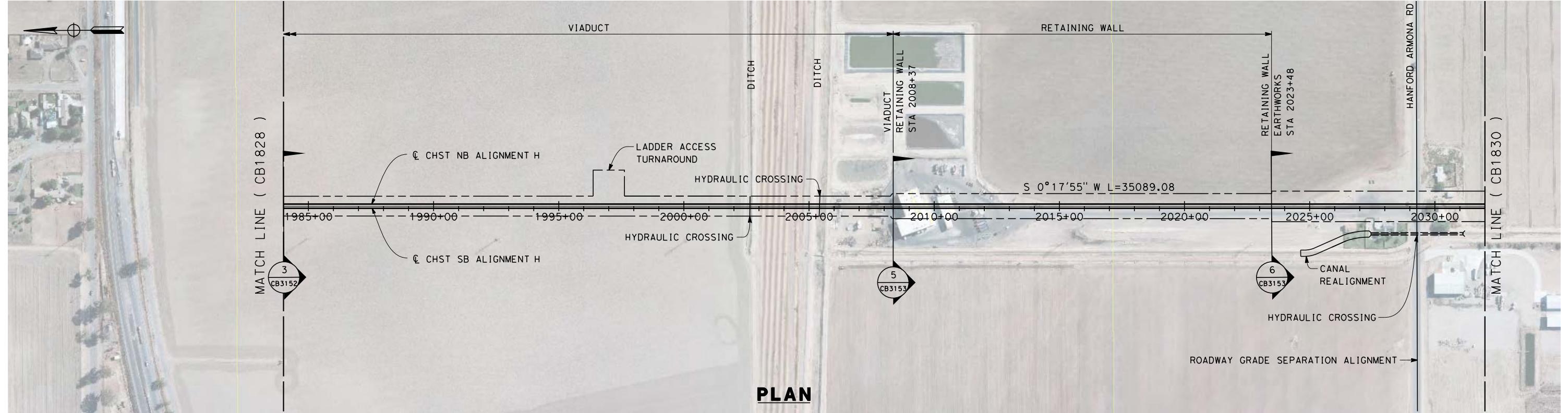
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003

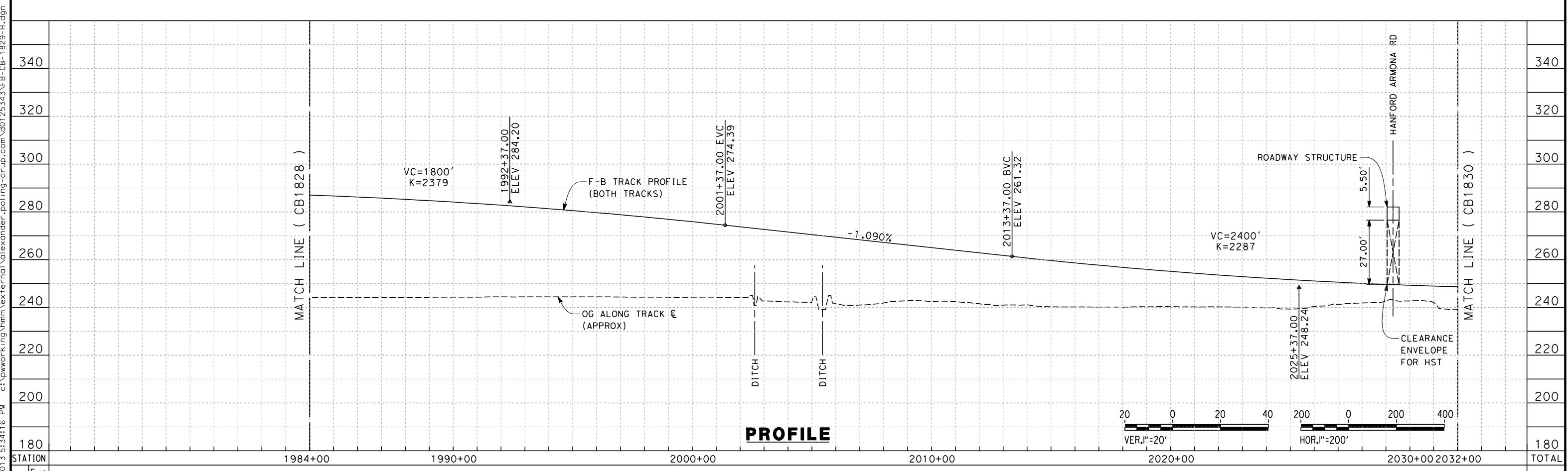
DRAWING NO.
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SCALE
AS SHOWN

SHEET NO.
21 OF 31



PLAN



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION	
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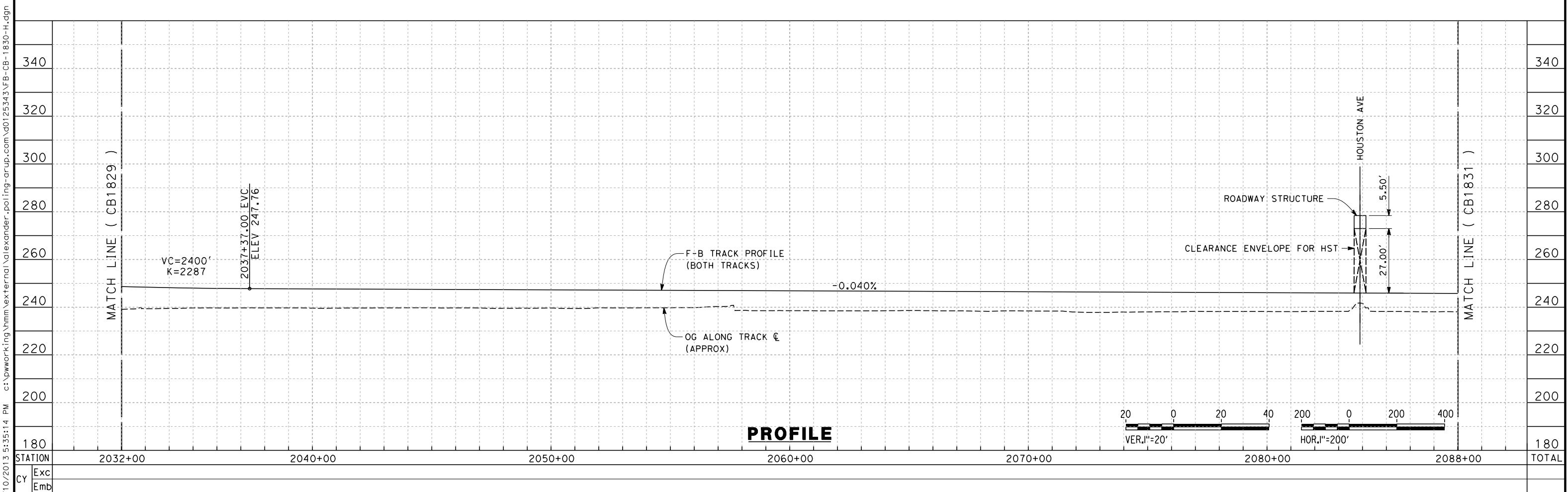
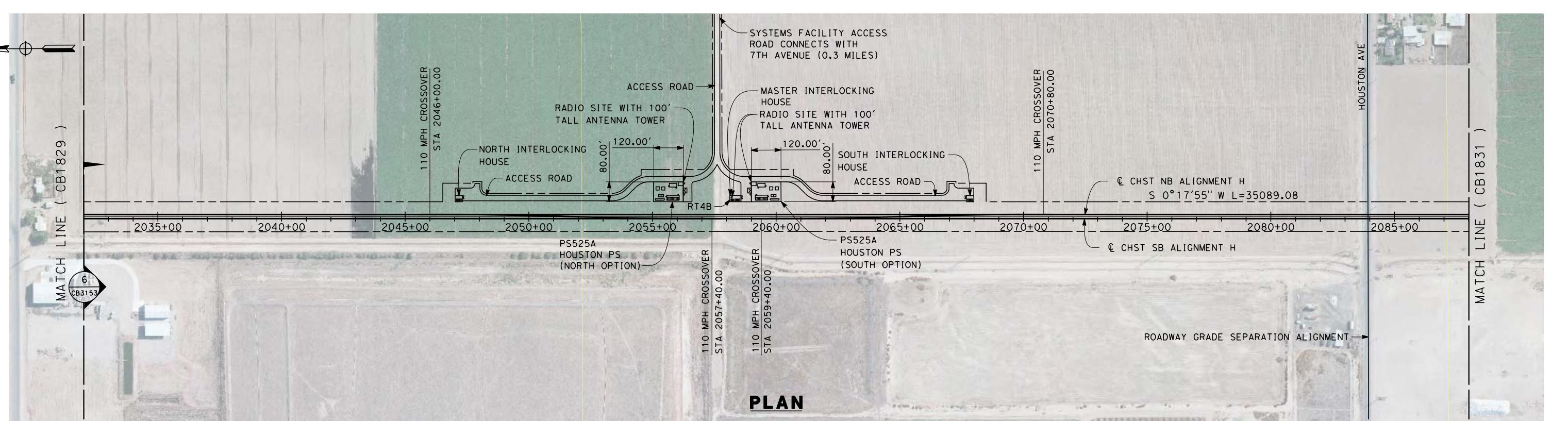
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 1984+00 TO 2032+00
PLAN AND PROFILE

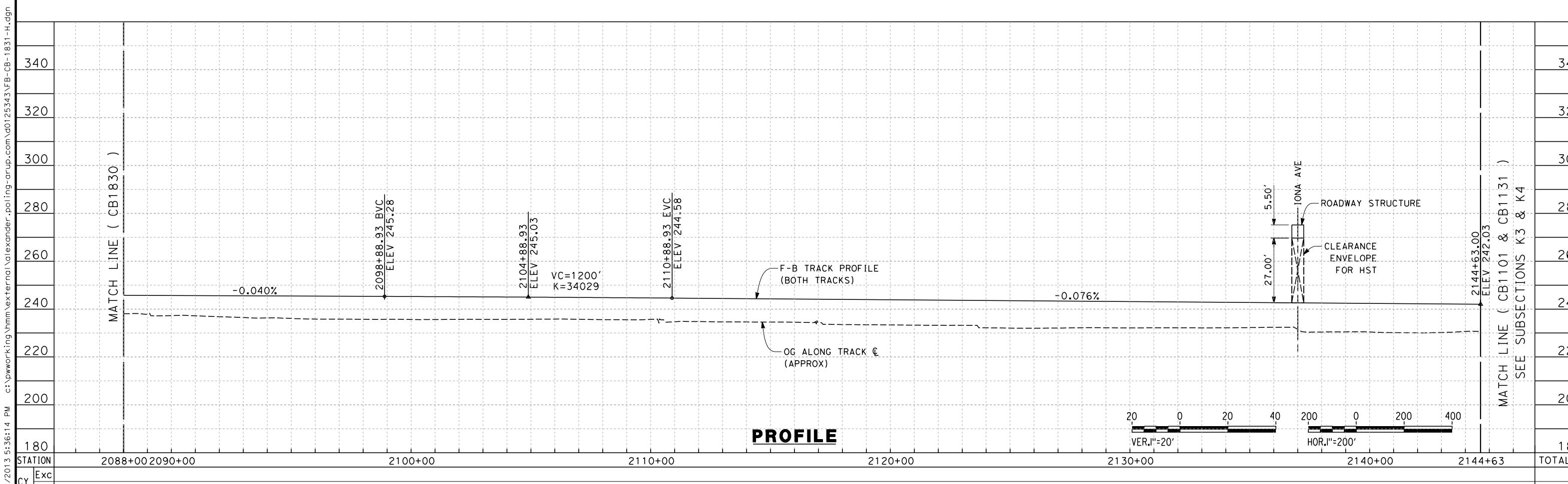
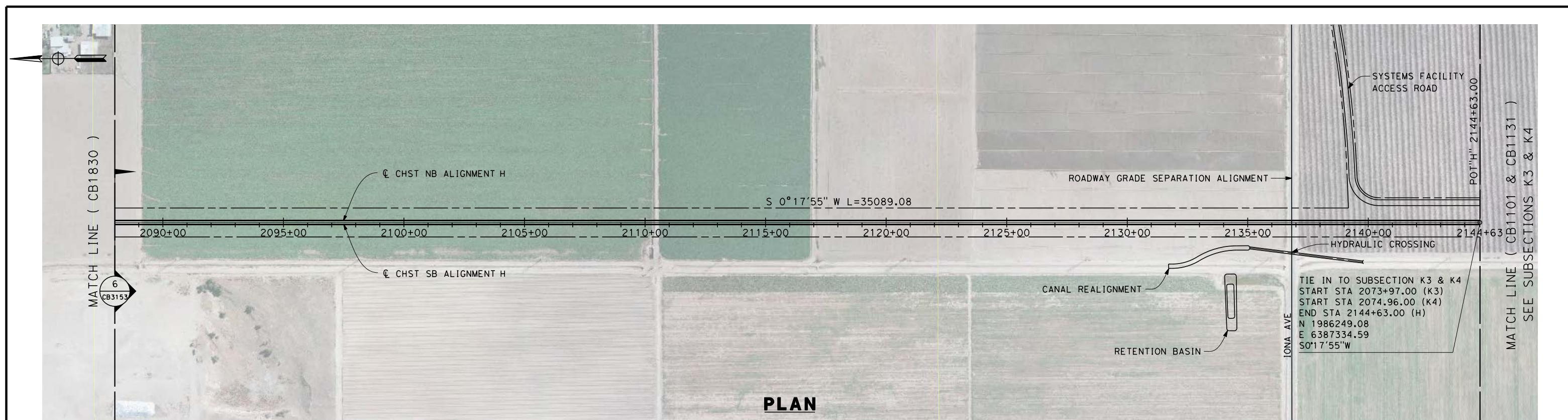
CONTRACT NO.
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DRAWING NO.
CB1829
SCALE
AS SHOWN
SHEET NO.
23 OF 31



DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY
DRAWN BY J. BORGHESI	-		
CHECKED BY K. SEYMOUR	-		
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION		
DATE 12/31/13			

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 2032+00 TO 2088+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1830
SCALE
AS SHOWN
SHEET NO.
24 OF 31



REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
K. SEYMOUR
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

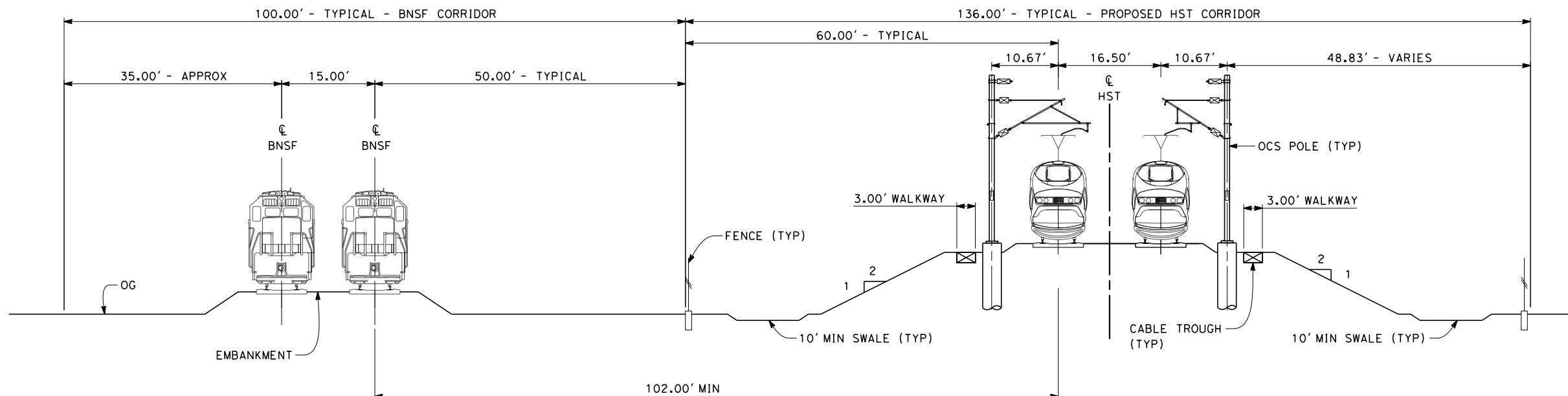


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD SUBSECTION
ALIGNMENT H
STA. 2088+00 TO 2144+63
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1831
SCALE
AS SHOWN
SHEET NO.
25 OF 31

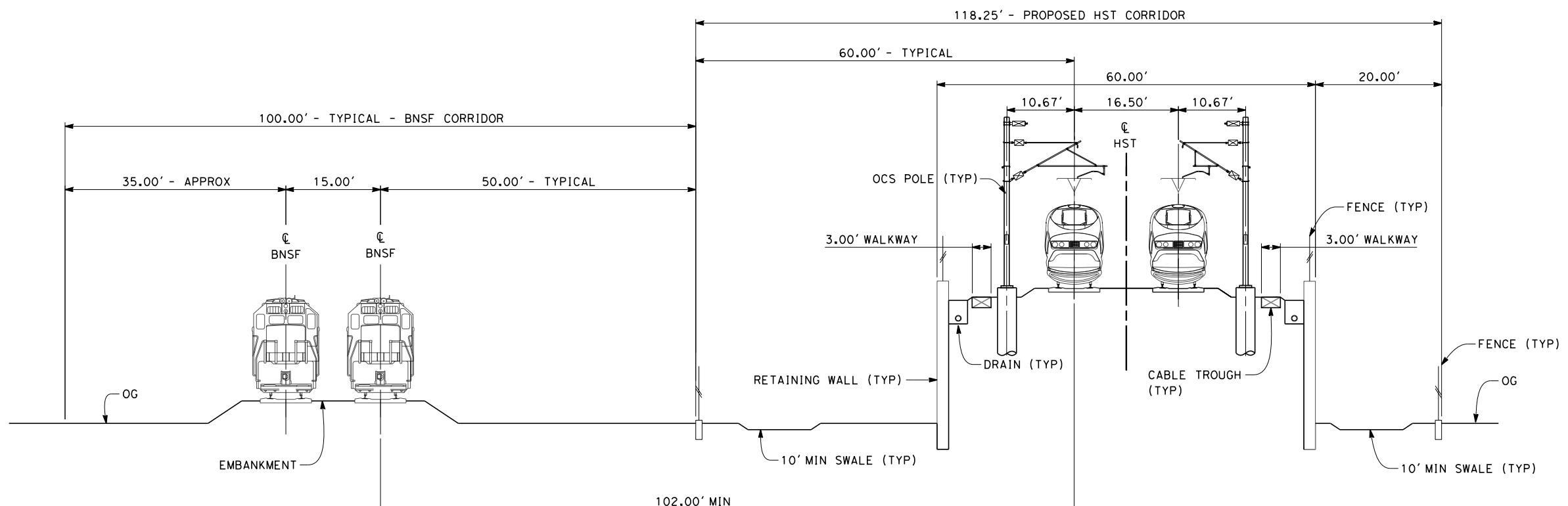
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
 2. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.



SECTION 1

**TWIN TRACK ADJACENT TO EXISTING BNSF - EMBANKMENT WITH OPEN DRAINAGE
STA 1065+07 THROUGH STA 1086+00**



SECTION 2

TWIN TRACK ADJACENT TO EXISTING BNSF - RETAINED EMBANKMENT WITH OPEN DRAINAGE
STA 1086+00 THROUGH STA 1105+70

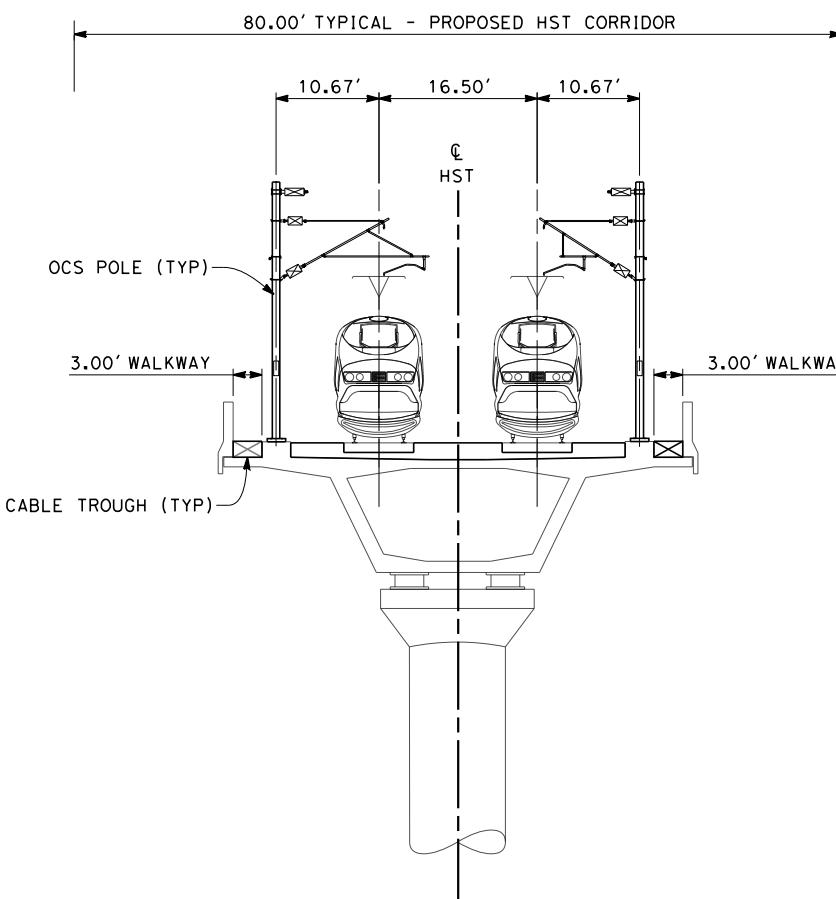


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

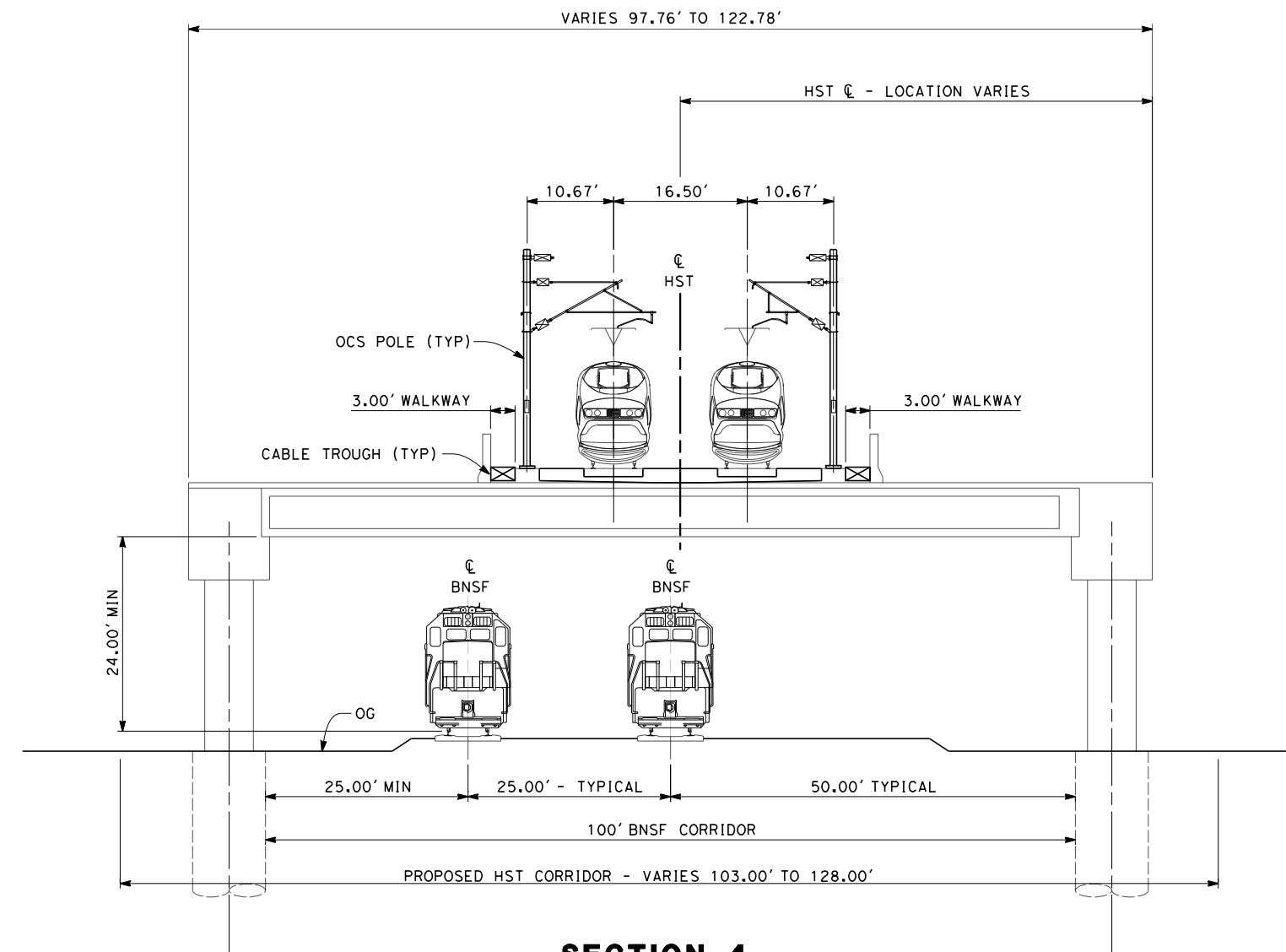
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3151
SCALE
AS SHOWN
HEET NO.
26 OF 31

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.



SECTION 3

TWIN TRACK - AERIAL STRUCTURE
 STA 1105+70 THROUGH STA 1120+30
 STA 1134+60 THROUGH STA 1156+20
 STA 1463+58 THROUGH STA 1464+80
 STA 1466+97 THROUGH STA 1485+70
 STA 1489+27 THROUGH STA 1518+30
 STA 1525+44 THROUGH STA 1580+87
 STA 1587+31 THROUGH STA 1593+34
 STA 1903+57 THROUGH STA 1919+50
 STA 1979+50 THROUGH STA 2008+37



SECTION 4

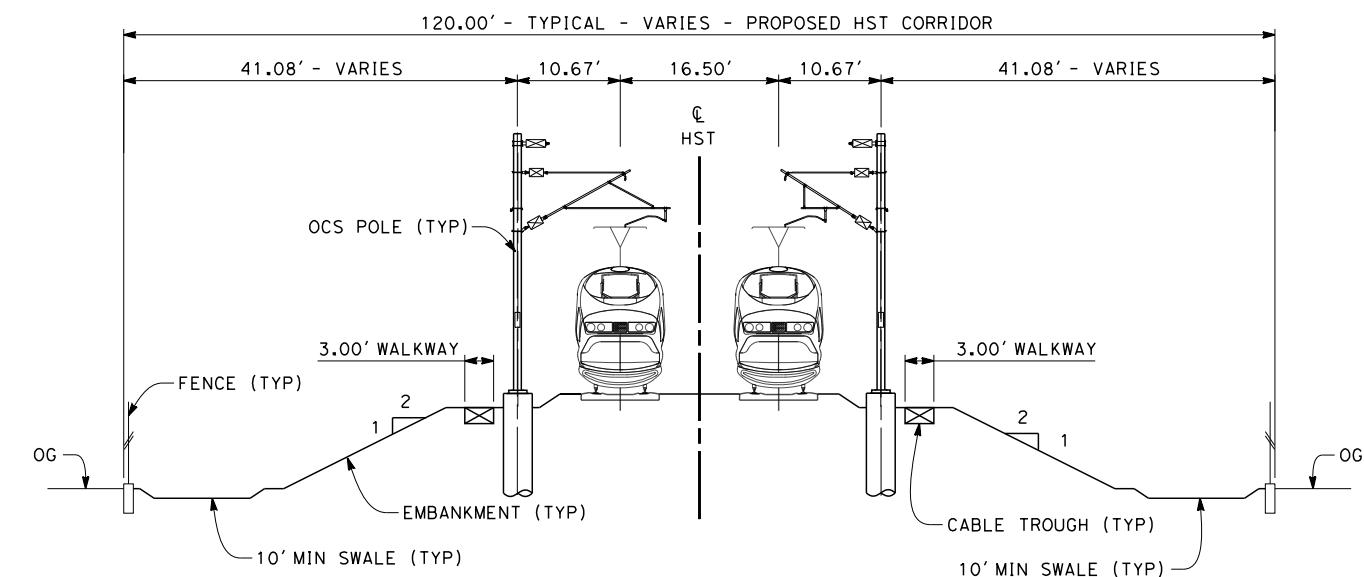
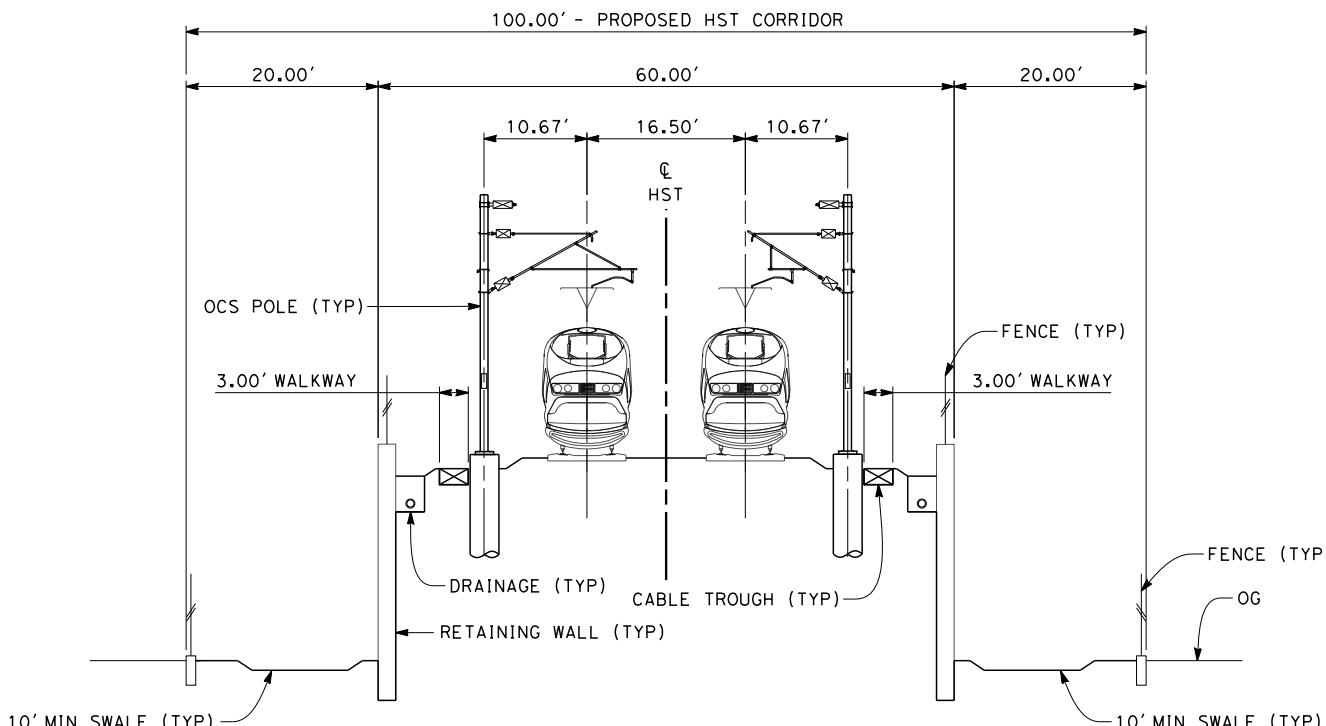
TWIN TRACK - ELEVATED SLAB OVER BNSF
 STA 1120+30 THROUGH STA 1134+60



					DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003
					DRAWN BY J. BORGHESI	-				DRAWING NO. CB3152
					CHECKED BY K. SEYMOUR	NOT FOR CONSTRUCTION				SCALE AS SHOWN
					IN CHARGE R. COFFIN					SHEET NO. 27 OF 31
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE	12/31/13			

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.
4. LEFT SIDE IS RETAINED EMBANKMENT WITH OPEN DRAINAGE AND RIGHT SIDE IS EMBANKMENT WITH OPEN DRAINAGE.

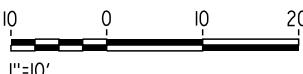


SECTION 5

TWIN TRACK - RETAINED EMBANKMENT WITH OPEN DRAINAGE
STA 1156+20 THROUGH STA 1173+50
STA 1439+19 THROUGH STA 1463+58
STA 1596+56 THROUGH STA 1622+50
STA 1850+50 THROUGH STA 1852+50 (SEE NOTE 4)
STA 1885+40 THROUGH STA 1903+57
STA 2008+37 THROUGH STA 2023+48

SECTION 6

TWIN TRACK - EMBANKMENT WITH OPEN DRAINAGE
STA 1173+50 THROUGH STA 1439+19
STA 1622+50 THROUGH STA 1850+50
STA 1852+50 THROUGH STA 1885+40
STA 2023+48 THROUGH STA 2144+63

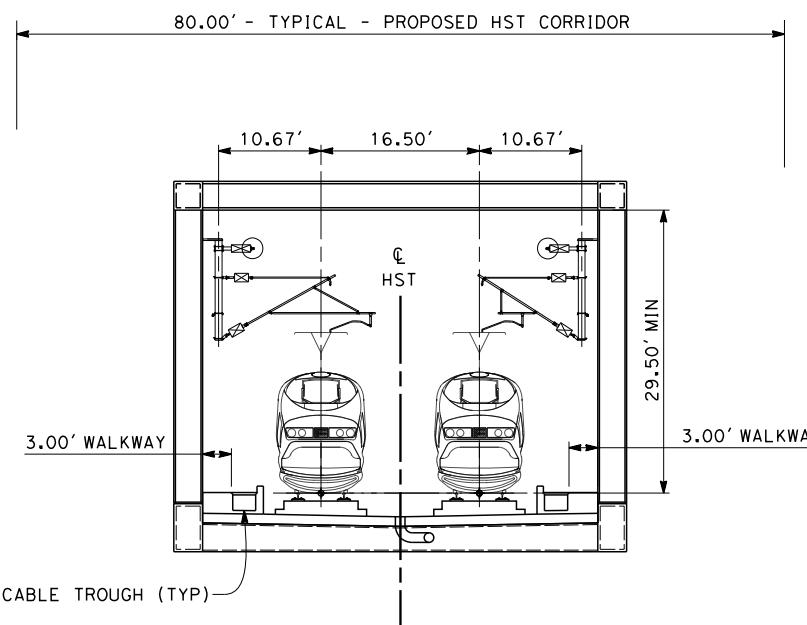


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD SUBSECTION
ALIGNMENT H
TYPICAL SECTIONS

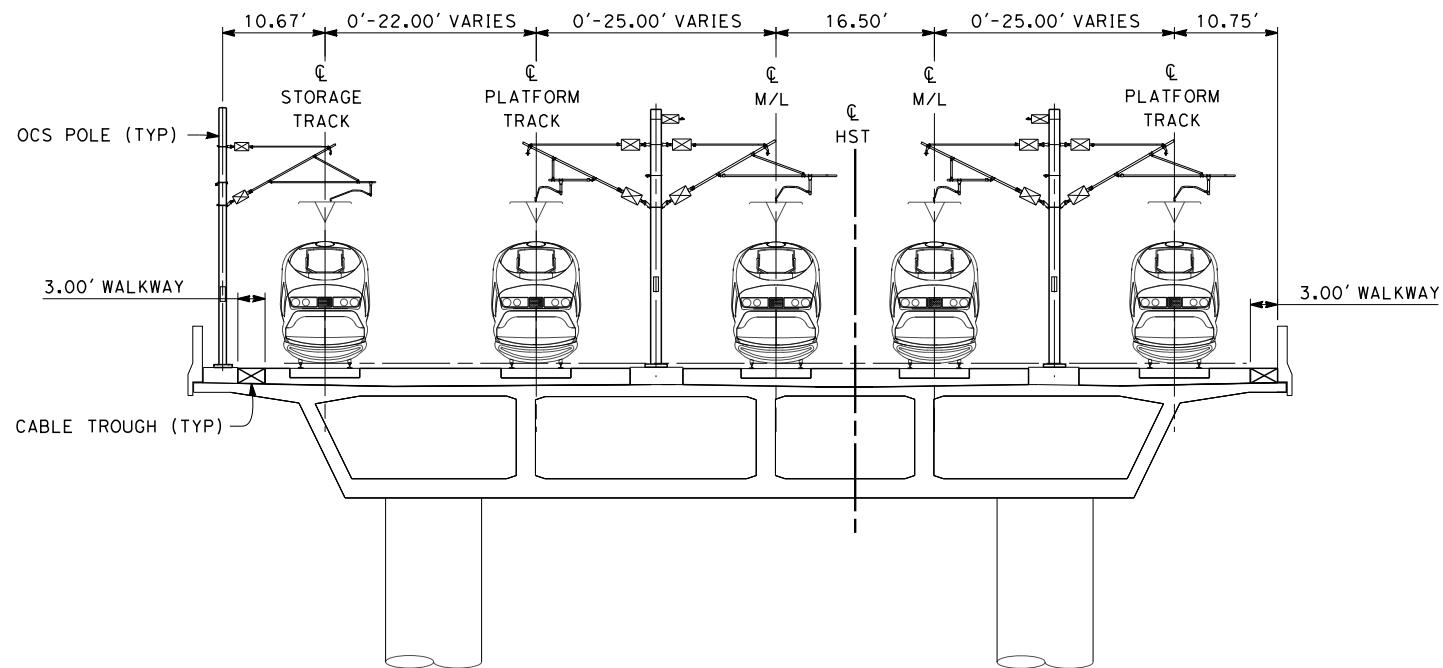
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB3153
SCALE
AS SHOWN
SHEET NO.
28 OF 31

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.

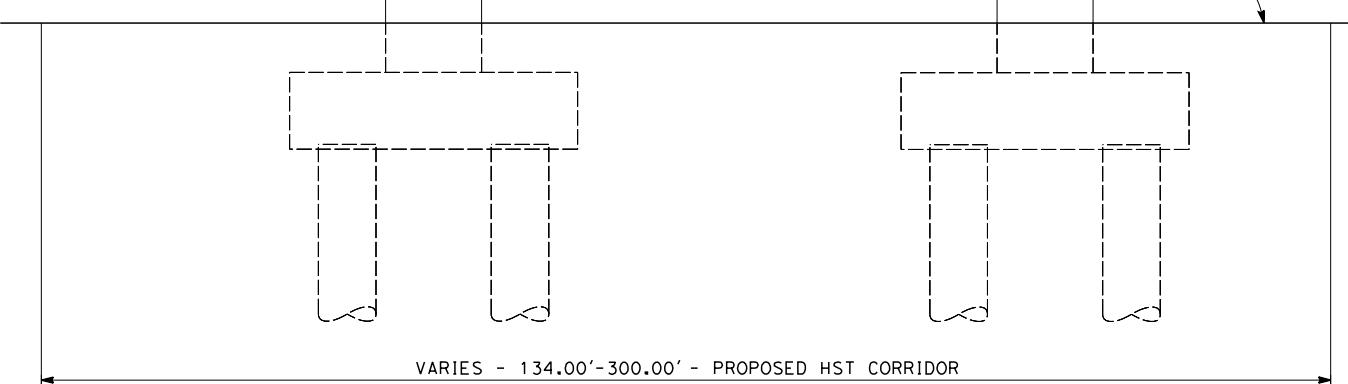


SECTION 7

TWIN TRACK- AERIAL STEEL TRUSS
 STA 1464+80 THROUGH STA 1466+97
 STA 1485+70 THROUGH STA 1489+27
 STA 1518+30 THROUGH STA 1525+44
 STA 1580+87 THROUGH STA 1587+31
 STA 1593+34 THROUGH STA 1596+56

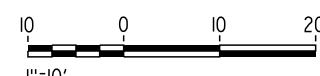


NOTE:
 STORAGE TRACK APPLICABLE BETWEEN
 STA 1920+52 THROUGH STA 1941+60



SECTION 8

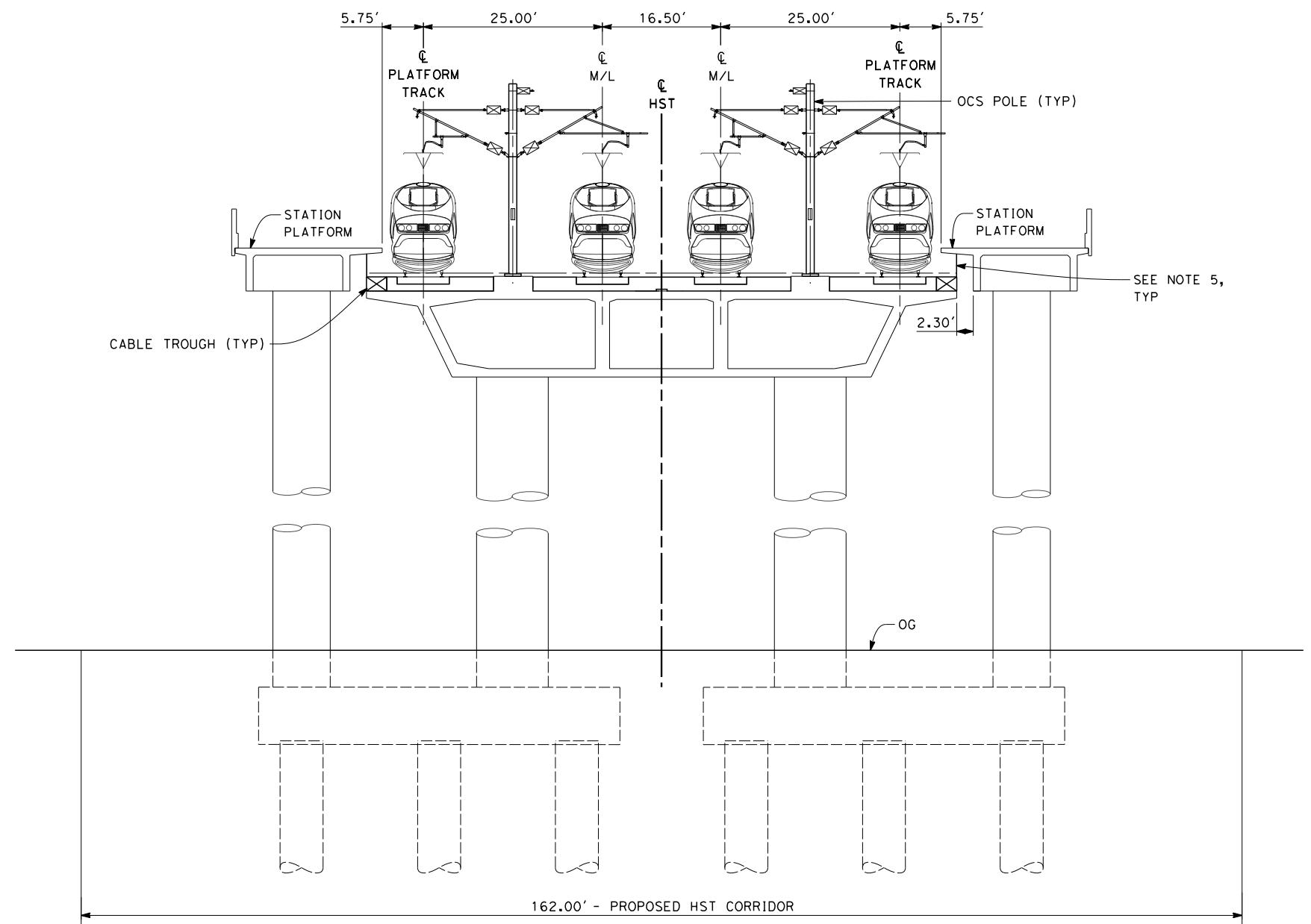
5 TRACK ELEVATED STATION APPROACH
 STA 1919+50 THROUGH STA 1942+27



DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP CALIFORNIA HIGH-SPEED TRAIN	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-				DRAWING NO. CB3154
CHECKED BY K. SEYMOUR					SCALE AS SHOWN
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION				SHEET NO. 29 OF 31
DATE 12/31/13					
REV	DATE	BY	CHK	APP	DESCRIPTION

NOTES:

1. TRACKFORM SHOWN IS INDICATIVE
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
3. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.
4. HST CORRIDOR WIDTH VARIES THROUGH THE STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION DRAWINGS FOR DETAILS.
5. MESH FENCE TO BE PROVIDED BETWEEN VIADUCT AND PLATFORM AS FALL PREVENTION BARRIER.



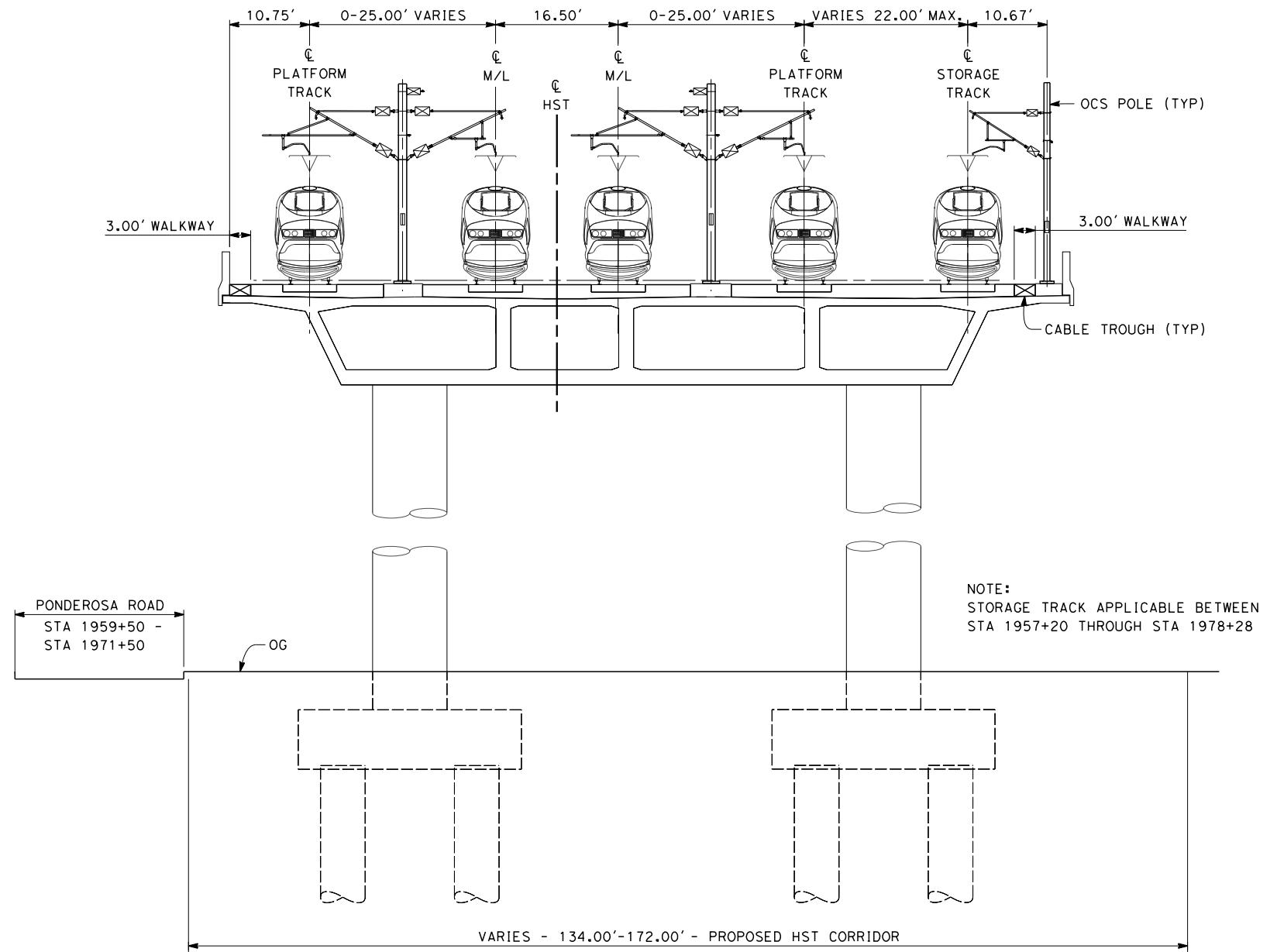
SECTION 9

4 TRACK ELEVATED PLATFORMS
STA 1942+27 THROUGH STA 1956+67

10 0 10 20
1'=10'

DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD SUBSECTION ALIGNMENT H TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-				DRAWING NO. CB3155
CHECKED BY K. SEYMORE					SCALE AS SHOWN
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION				SHEET NO. 30 OF 31
DATE 12/31/13					
REV DATE BY CHK APP	DESCRIPTION				

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE
 2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS
 3. SUPERELEVATION IS NOT SHOWN IN CROSS SECTIONS. FOR DETAILS OF SUPERELEVATION SEE CURVE TABLES.



SECTION 10

5 TRACK ELEVATED STATION APPROACH
STA 1956+67 THROUGH STA 1979+50

10 0 10 20
1"=10'



REV	DATE	BY	CHK	APP	DESCRIPTION	DATE
						12/31/13

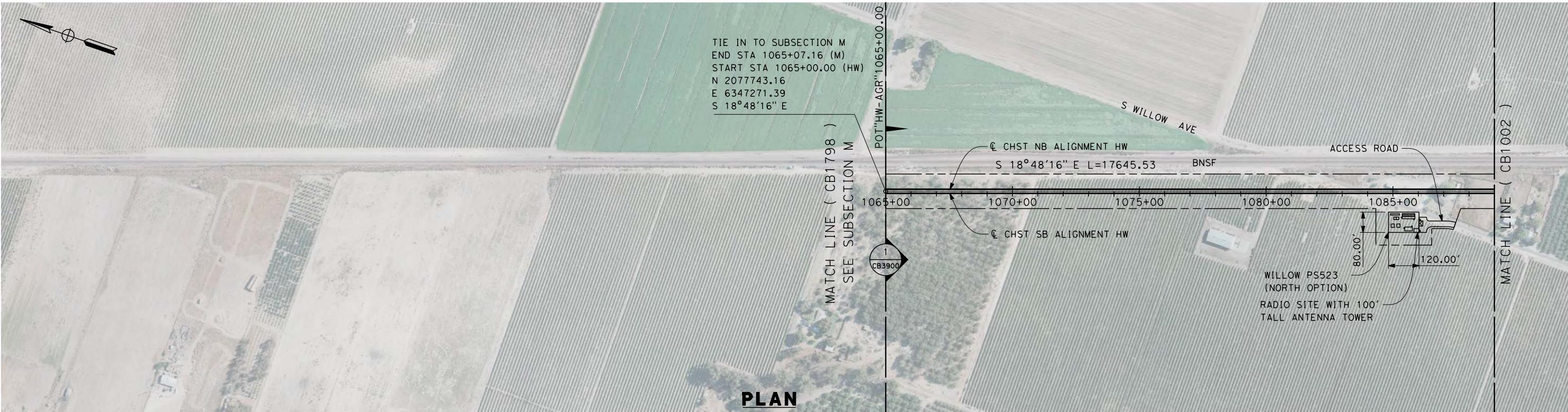
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

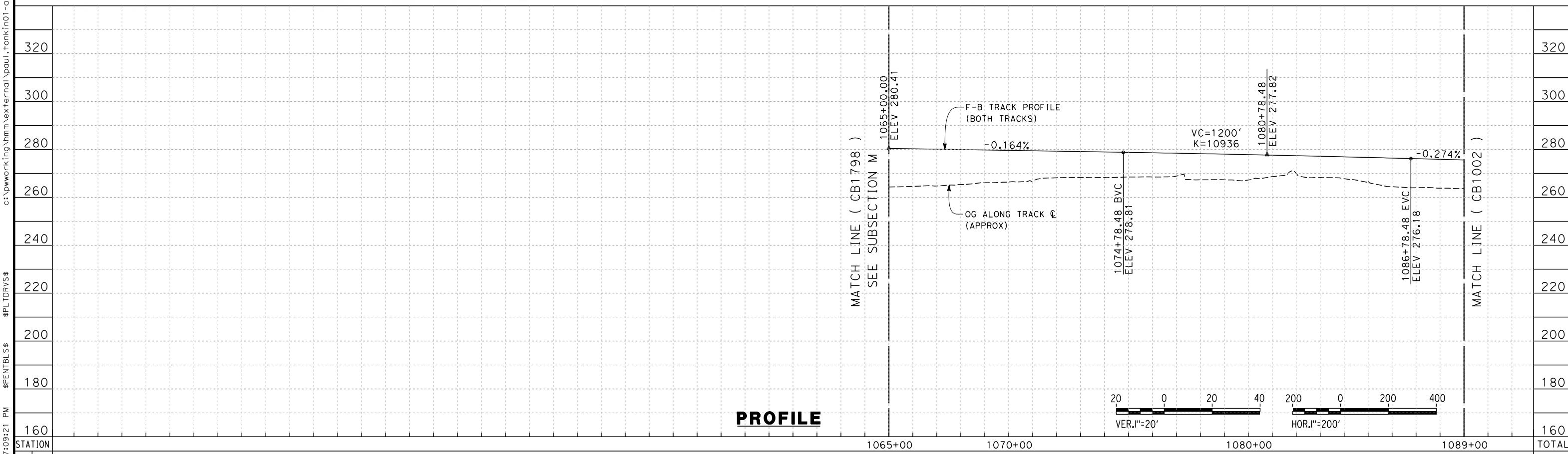


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1065+00 TO 2029+61
KEY MAP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1000
SCALE
AS SHOWN
SHEET NO.
1 OF 29



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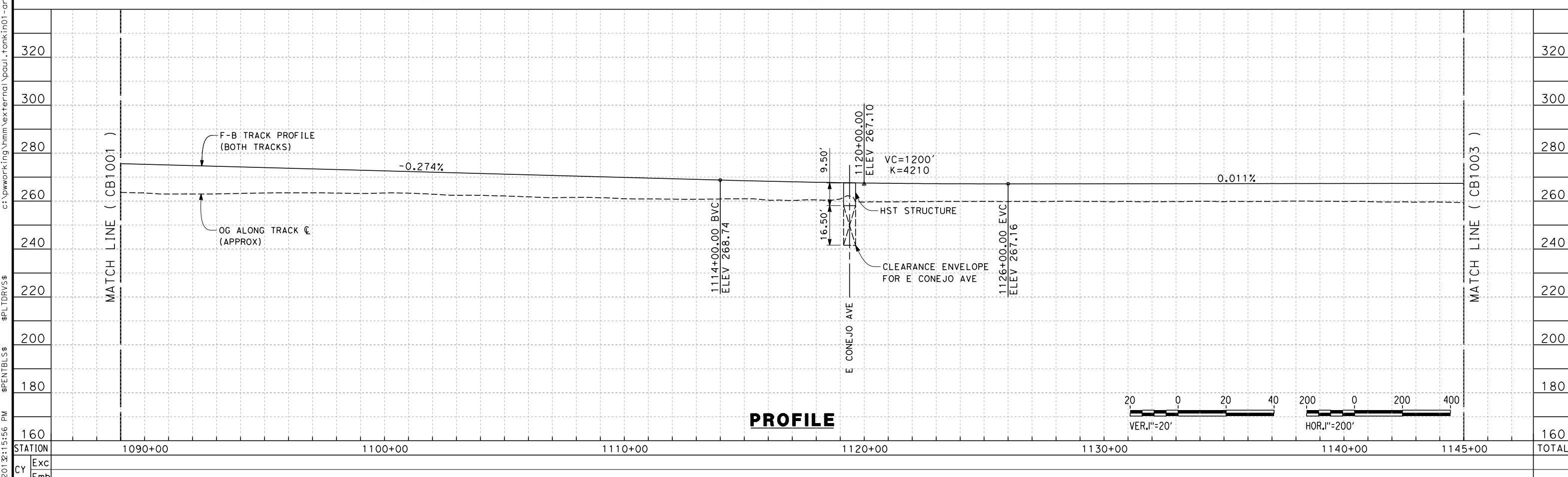
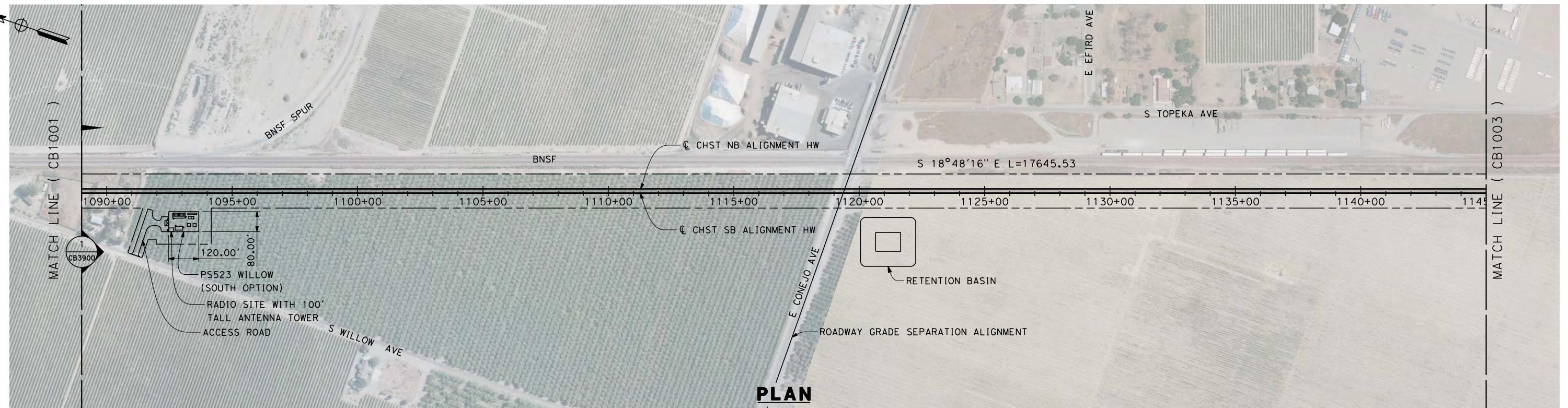
DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY
DRAWN BY J. BORGHESI	-		
CHECKED BY G. MEJIA			
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION		
DATE 12/31/13			
REV DATE BY CHK APP	DESCRIPTION		

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

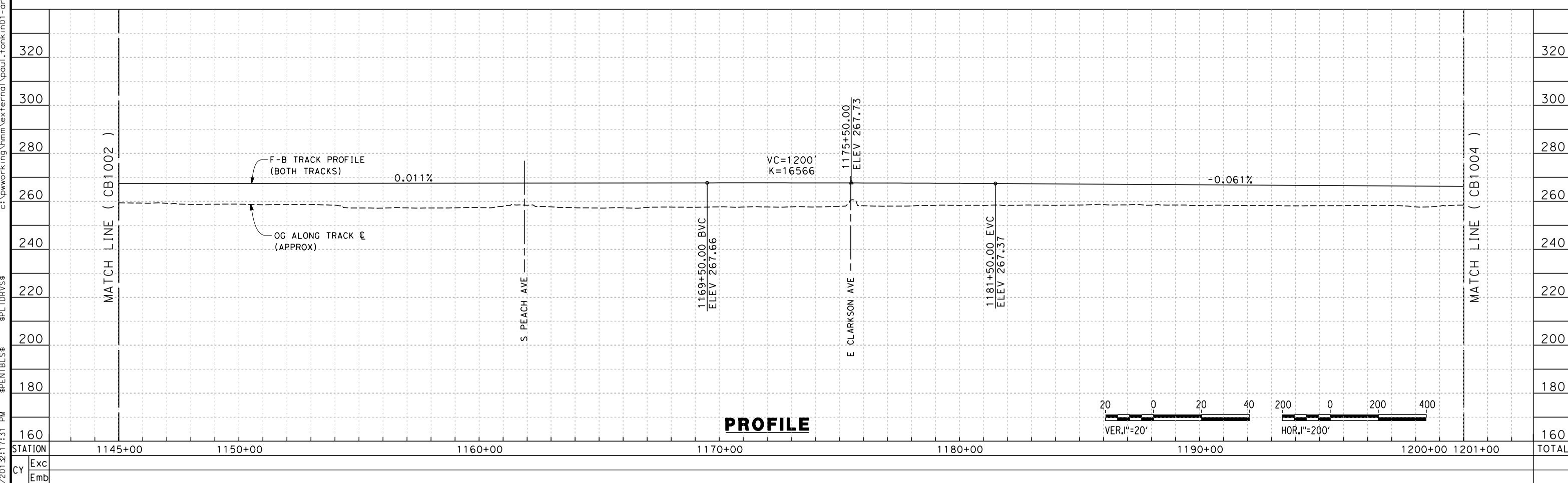
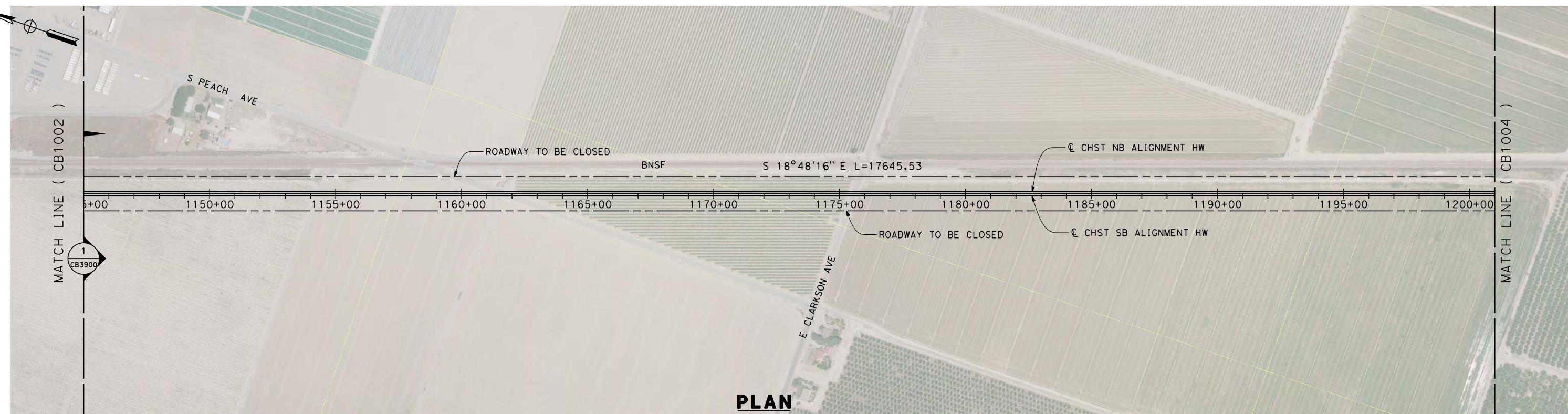


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1065+00 TO 1089+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1001
SCALE
AS SHOWN
SHEET NO.
2 OF 29



DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN	HANFORD WEST BYPASS SUBSECTION	DRAWING NO. CB1002
CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION		ALIGNMENT HW (AT-GRADE)	SCALE AS SHOWN
IN CHARGE R. COFFIN			STA 1089+00 TO 1145+00	
DATE 12/31/13			PLAN AND PROFILE	SHEET NO. 3 OF 29
REV	DATE	BY	CHK	APP
			DESCRIPTION	



REV	DATE	BY
		CHK

DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

I
RECORD SET 10
DESIGN SUBMISSION

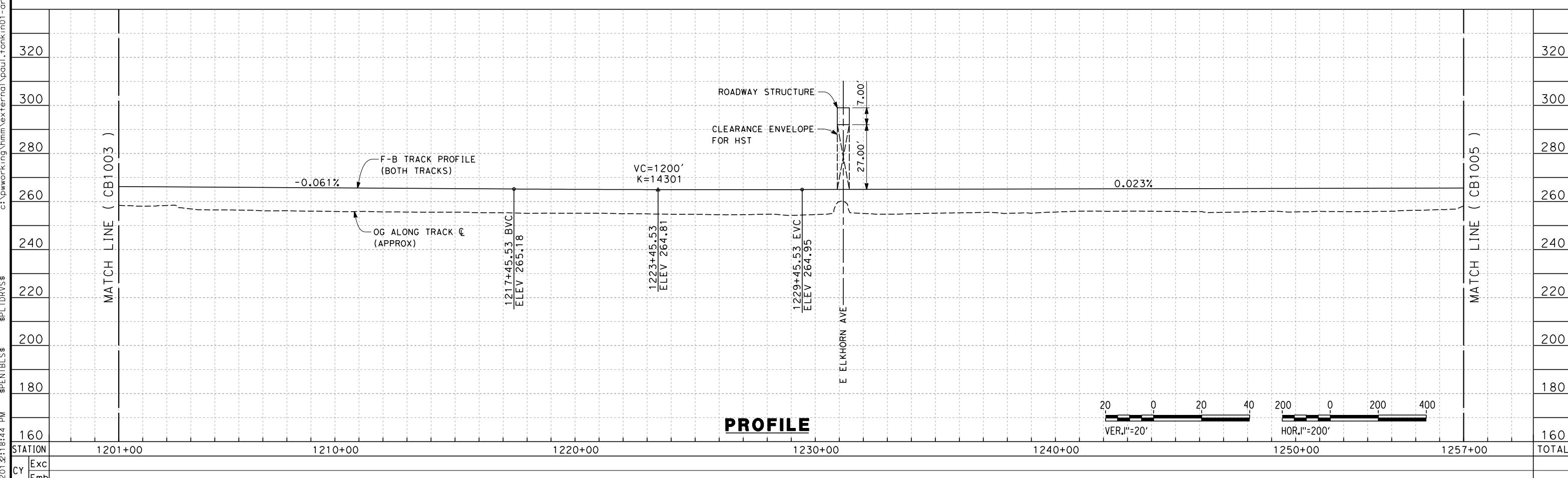
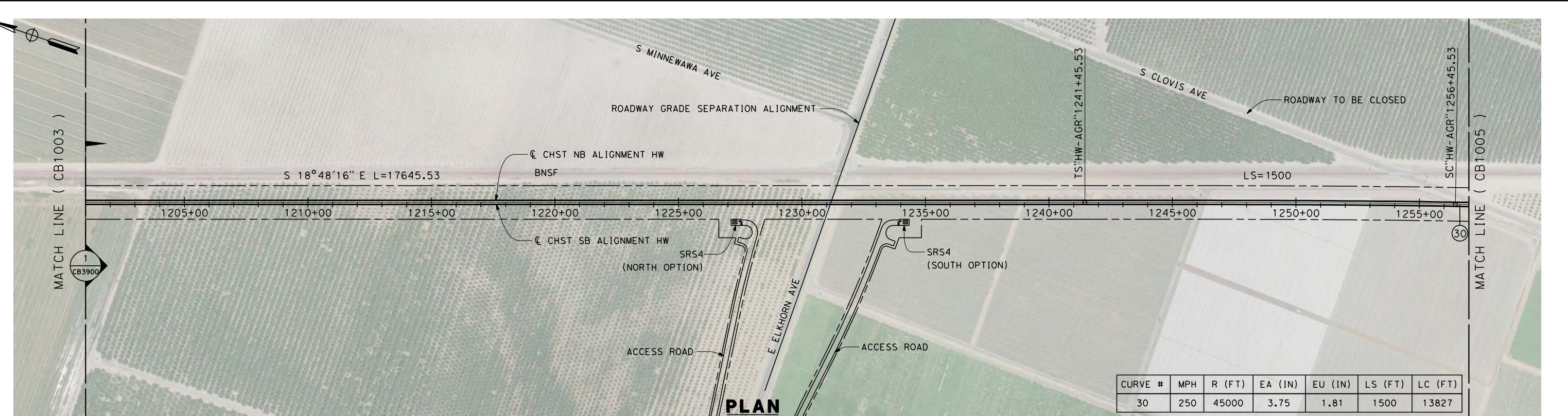
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1145+00 TO 1201+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1003
SCALE
AS SHOWN
SHEET NO.
4 OF 29



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REV	DATE	BY	CHK
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DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

**RECORD SET 15
DESIGN SUBMISSION**

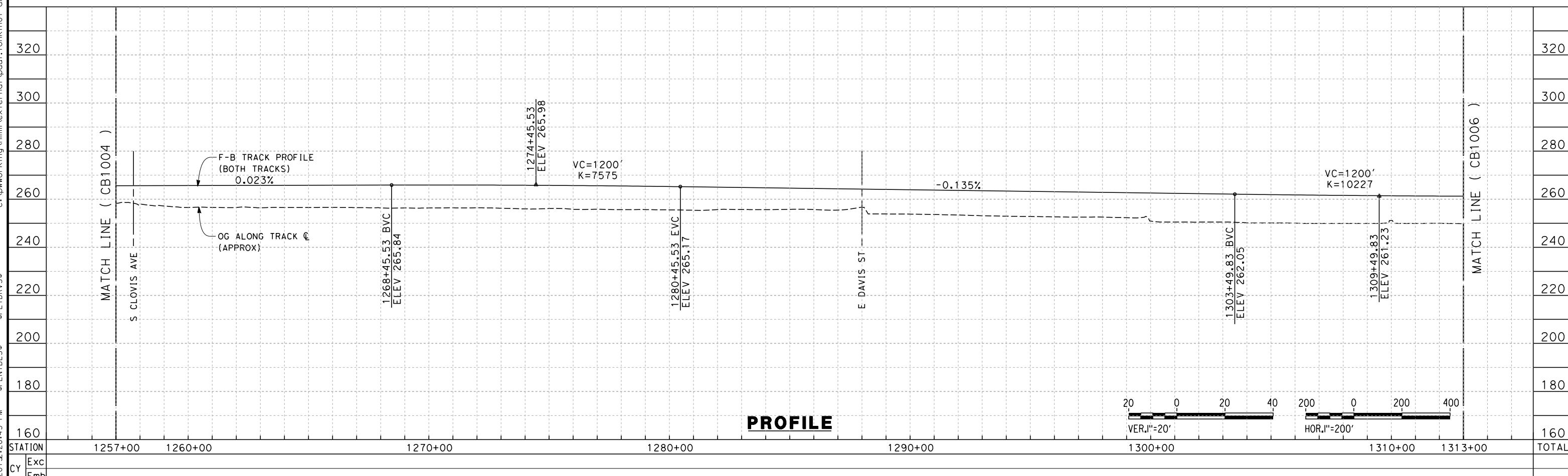
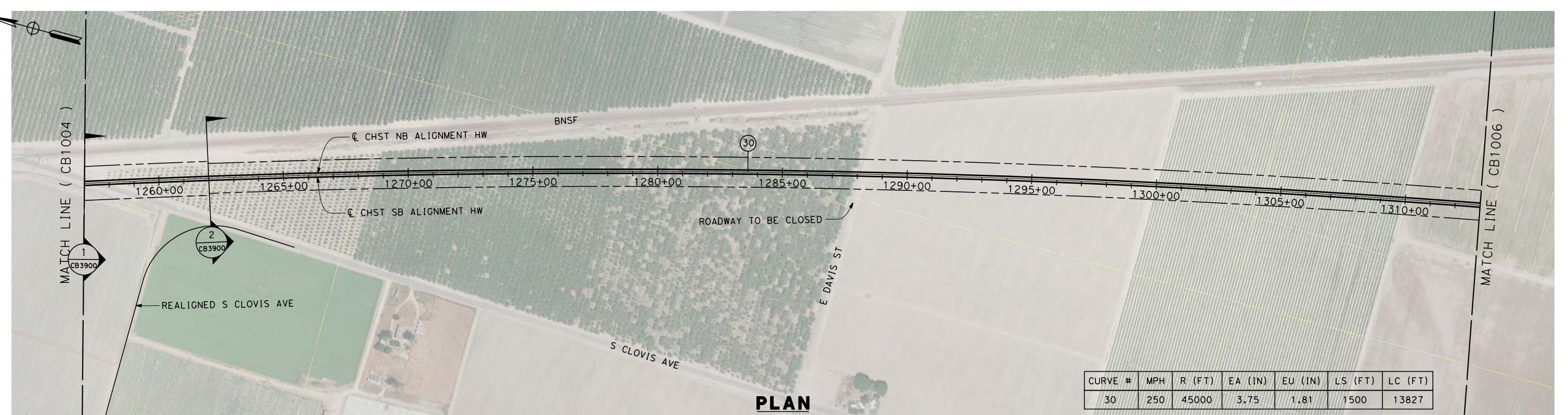
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

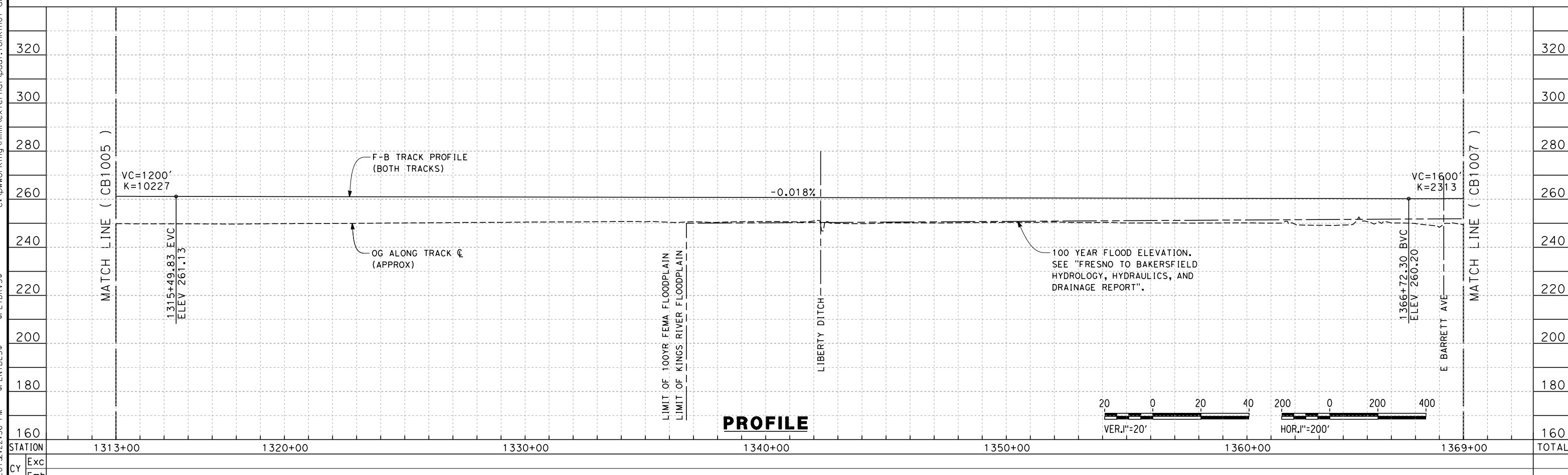
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1201+00 TO 1257+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1004
SCALE
AS SHOWN
SHEET NO.
5 OF 29



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REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. POLING DRAWN BY J. BORGHESI CHECKED BY G. MEJIA IN CHARGE R. COFFIN DATE 12/31/13	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	URS HMM ARUP 	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT-GRADE) STA 1257+00 TO 1313+00 PLAN AND PROFILE	CONTRACT NO. HSR 06-0003 DRAWING NO. CB1005 SCALE AS SHOWN SHEET NO. 6 OF 29
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REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13
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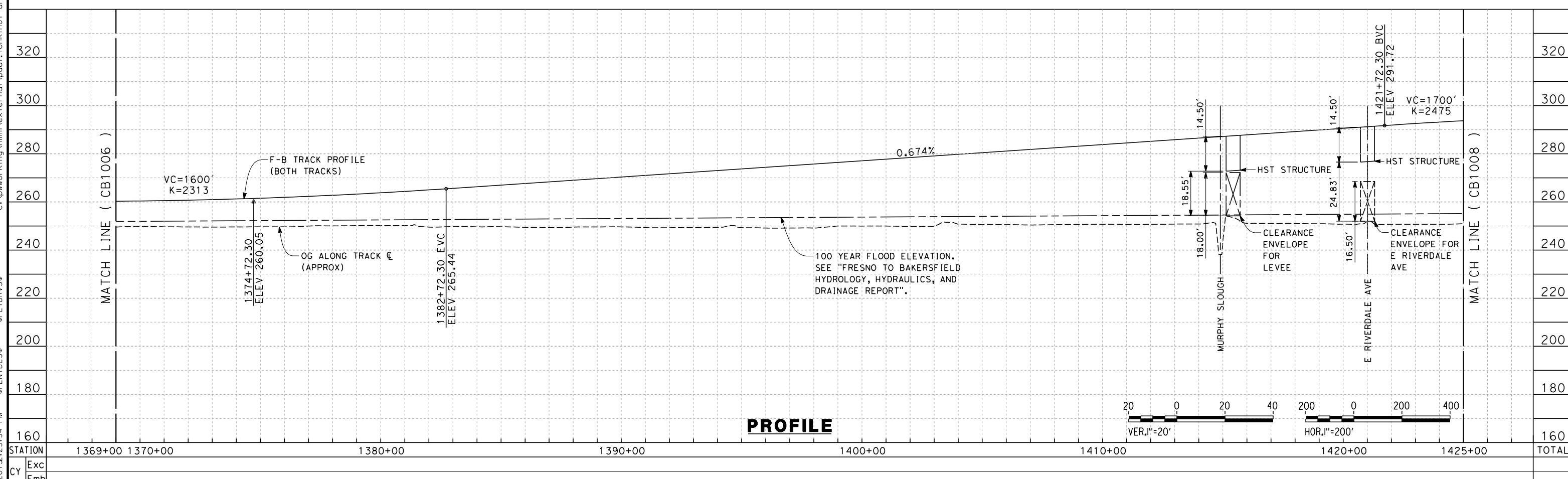
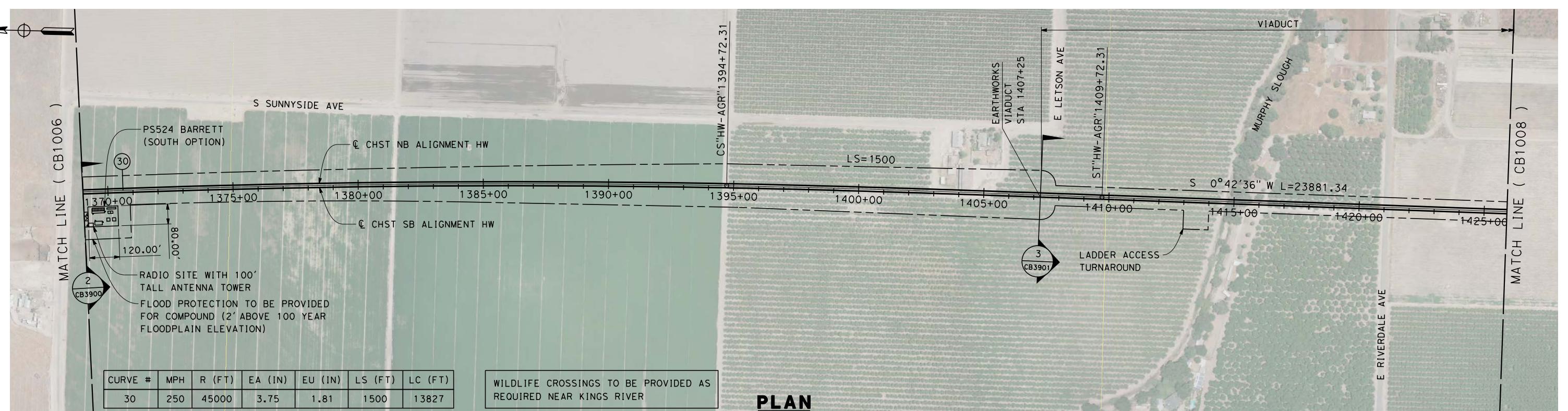
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1313+00 TO 1369+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1006
SCALE
AS SHOWN
SHEET NO.
7 OF 29



DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

**RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION**

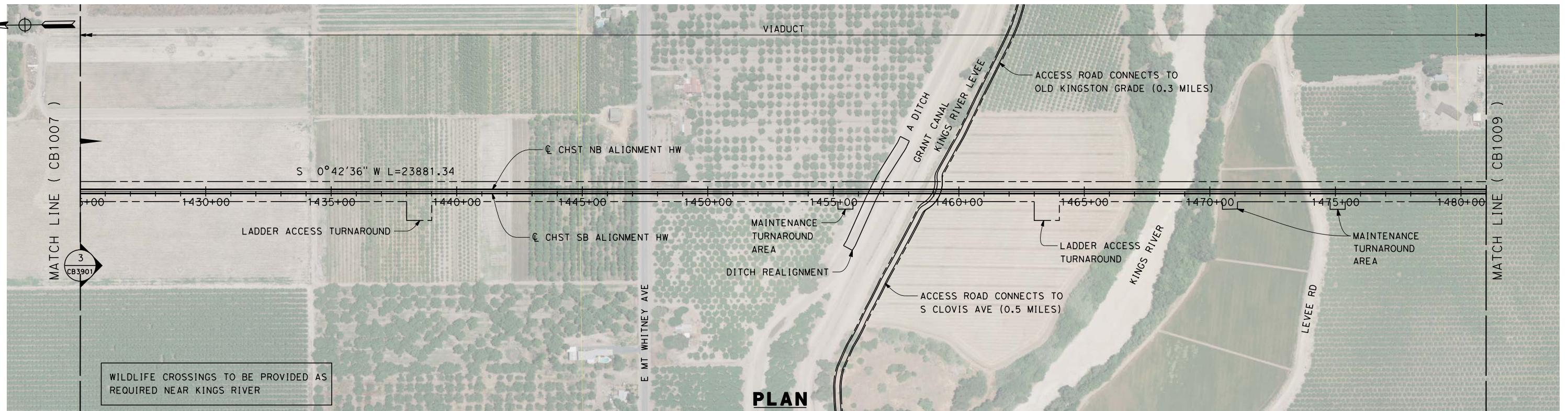


PROFILE

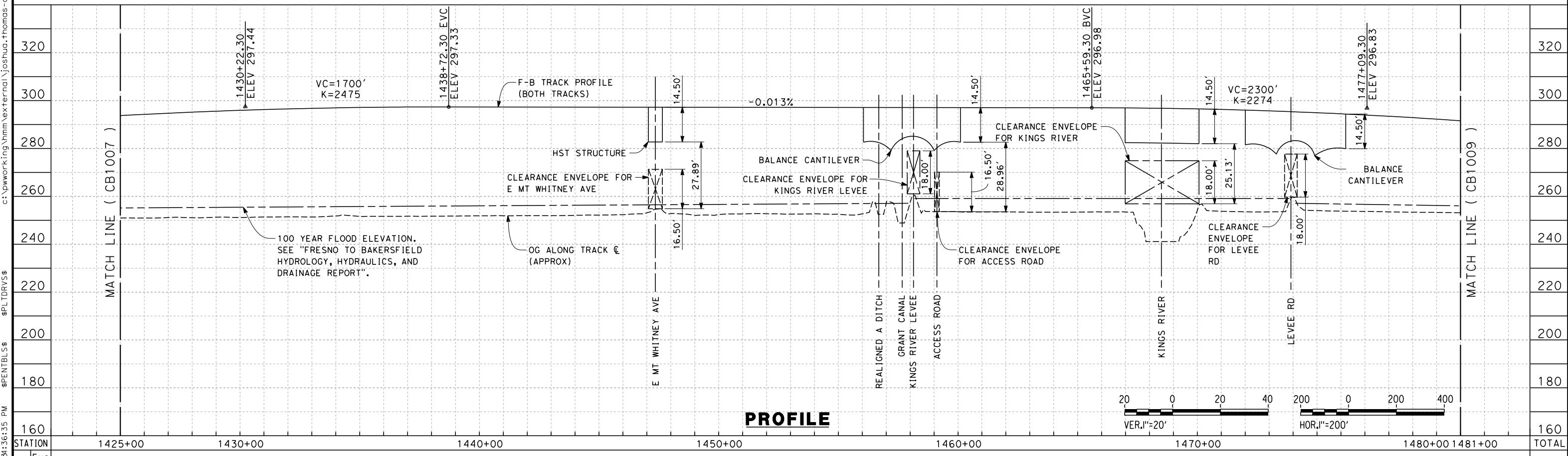
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1369+00 TO 1425+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1007
SCALE
AS SHOWN
SHEET NO.
8 OF 29



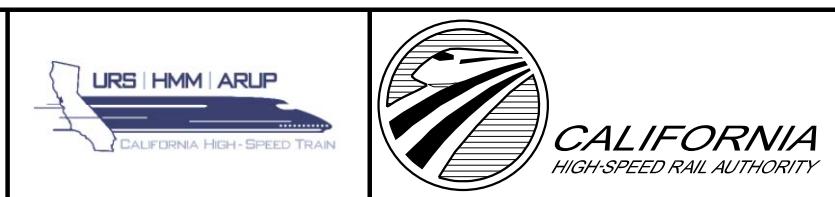
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STATION	1425+00	1430+00	1440+00	1450+00	1460+00	1470+00	1480+00	1481+00	TOTAL
CY	Exc								
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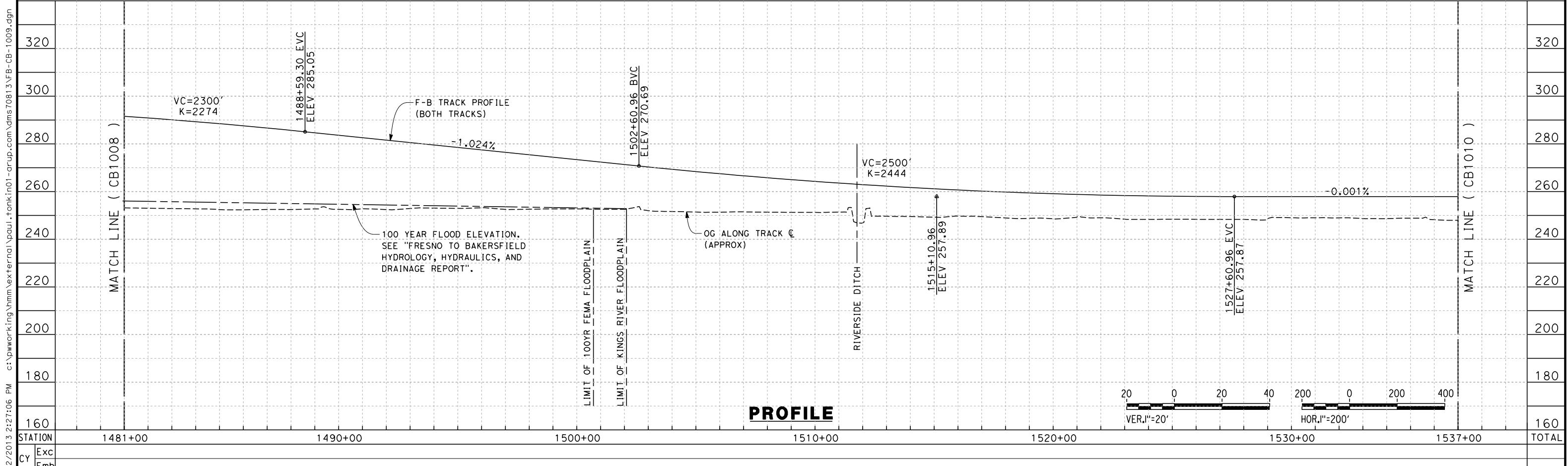
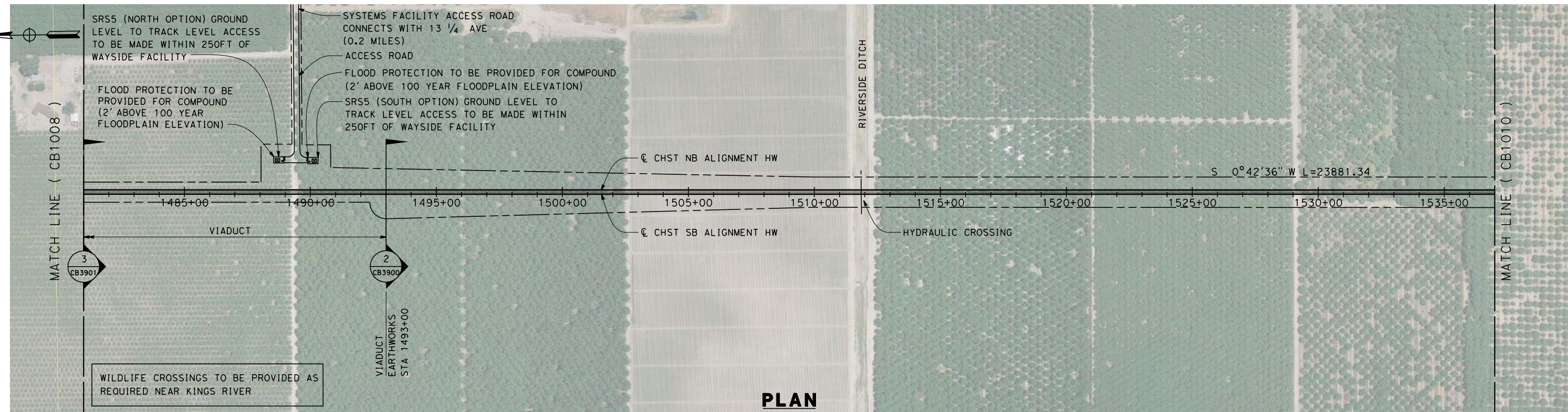
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



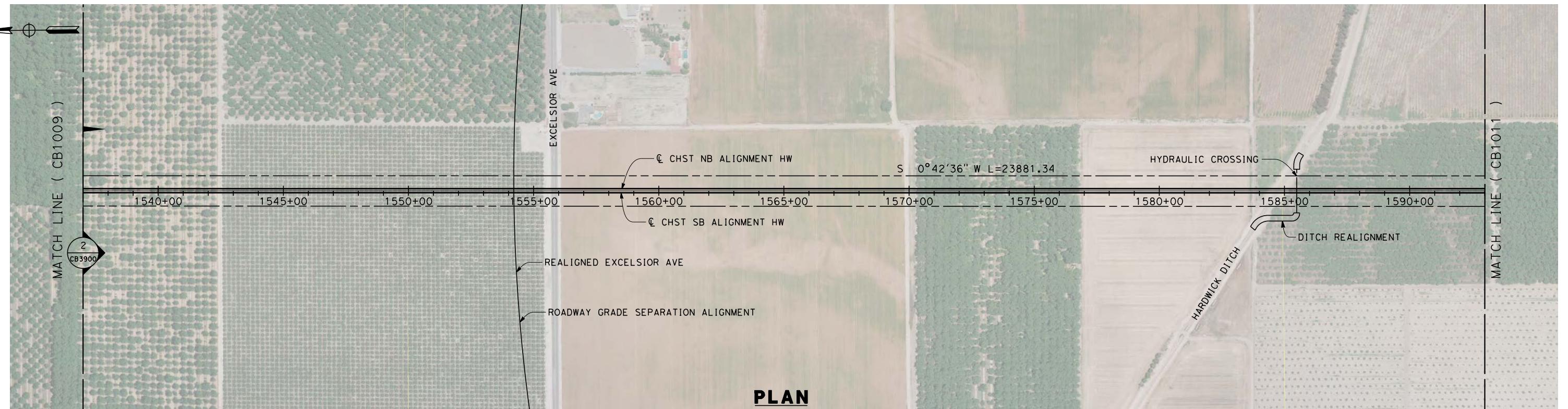
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1425+00 TO 1481+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1008
SCALE
AS SHOWN
SHEET NO.
9 OF 29

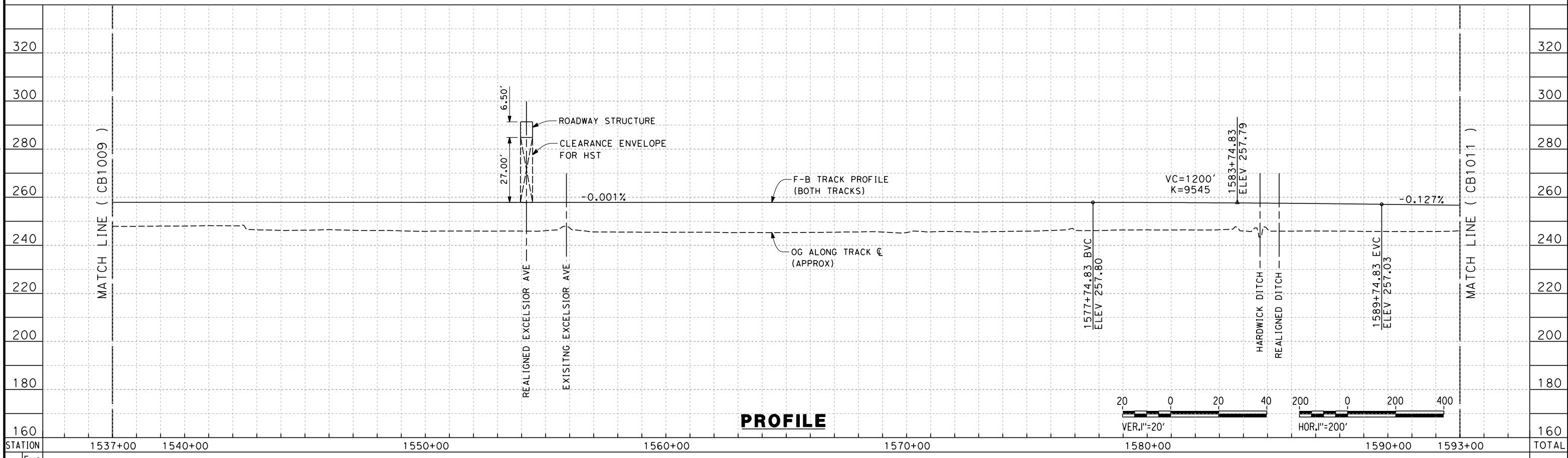


REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY A. POLING	DRAWN BY J. BORGHESI	CHECKED BY G. MEJIA	IN CHARGE R. COFFIN	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT GRADE) STA. 1481+00 TO 1537+00 PLAN AND PROFILE	CONTRACT NO. HSR-06-003	DRAWING NO. CB1009	SCALE AS SHOWN	HEET NO. 10 OF 29

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paul.tonkin



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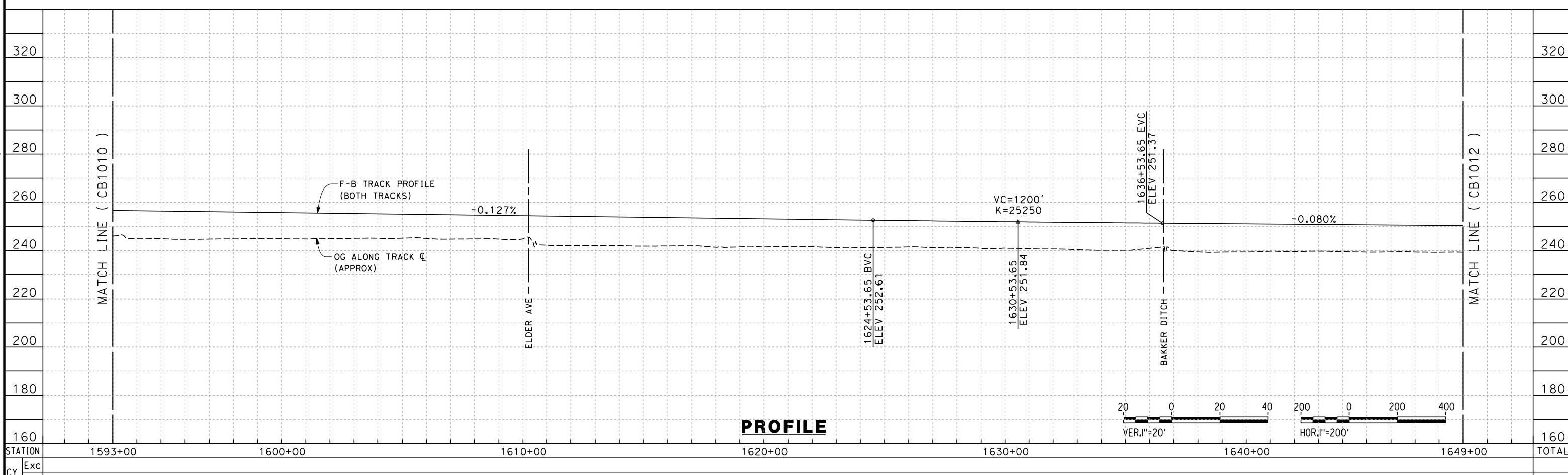
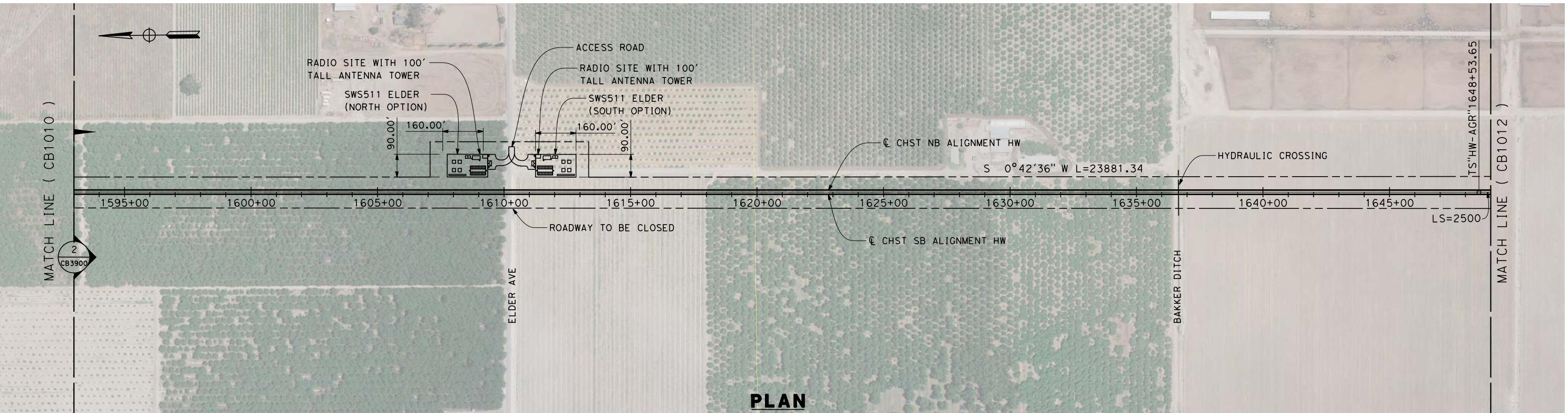


DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN
CHECKED BY G. MEJIA	-	
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION	
DATE 12/31/13		CALIFORNIA HIGH-SPEED RAIL AUTHORITY

REV DATE BY CHK APP DESCRIPTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1537+00 TO 1593+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1010
SCALE
AS SHOWN
SHEET NO.
11 OF 29



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REV	DATE	BY	CHK

DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION



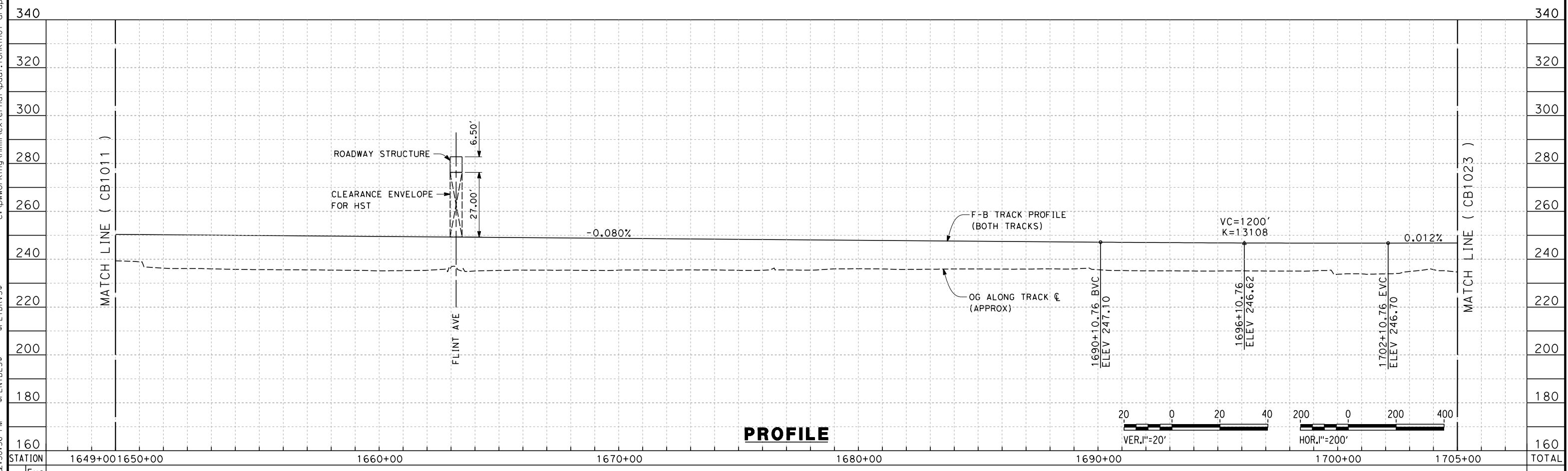
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1593+00 TO 1649+00
PLAN AND PROFILE

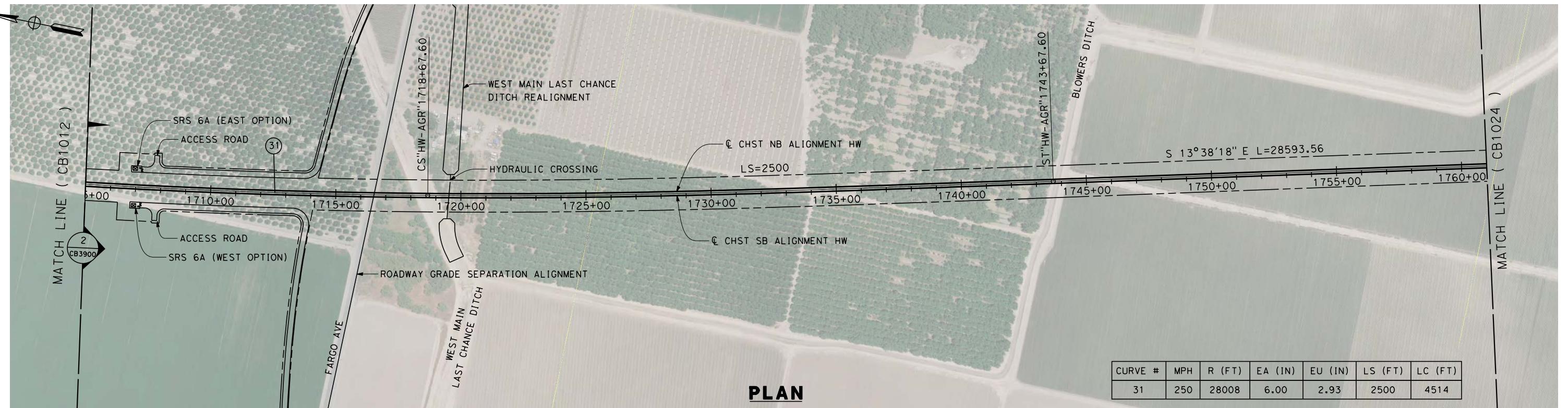
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1011
CALE AS SHOWN
HEET NO.
12 OF 29



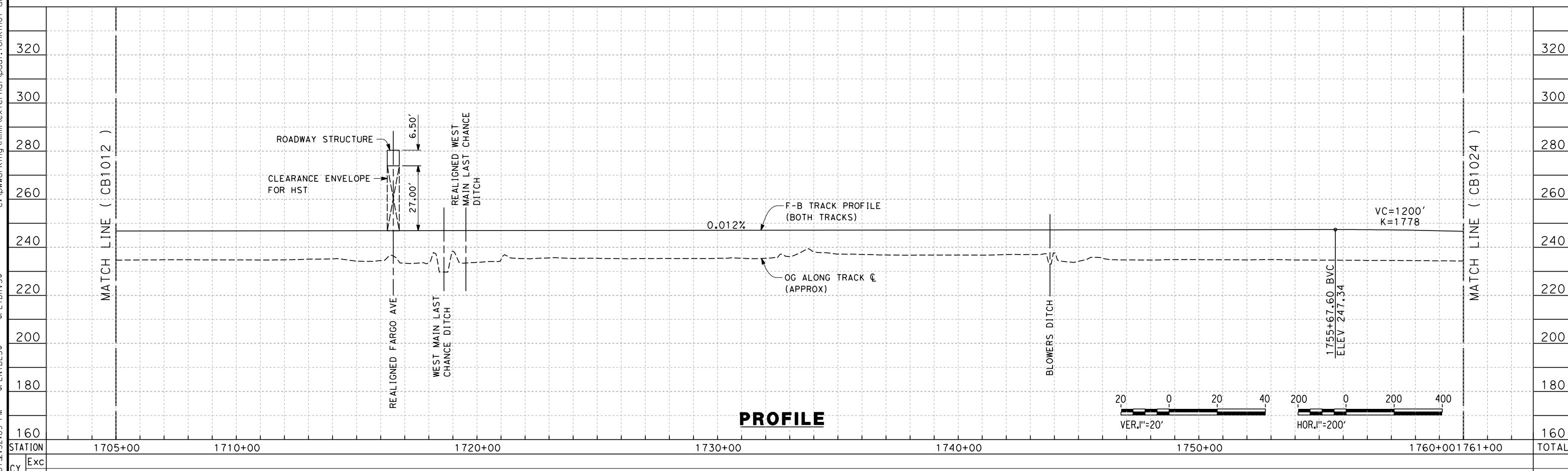
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DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN	HANFORD WEST BYPASS SUBSECTION	DRAWING NO. CB1012
CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION		ALIGNMENT HW (AT-GRADE)	SCALE AS SHOWN
IN CHARGE R. COFFIN			STA 1649+00 TO 1705+00	SHEET NO. 13 OF 29
DATE 12/31/13			PLAN AND PROFILE	
REV	DATE	BY	CHK APP	DESCRIPTION



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\$PNTBLSS

\$PLTDRVSS

STATION

CY

REV

DATE

BY

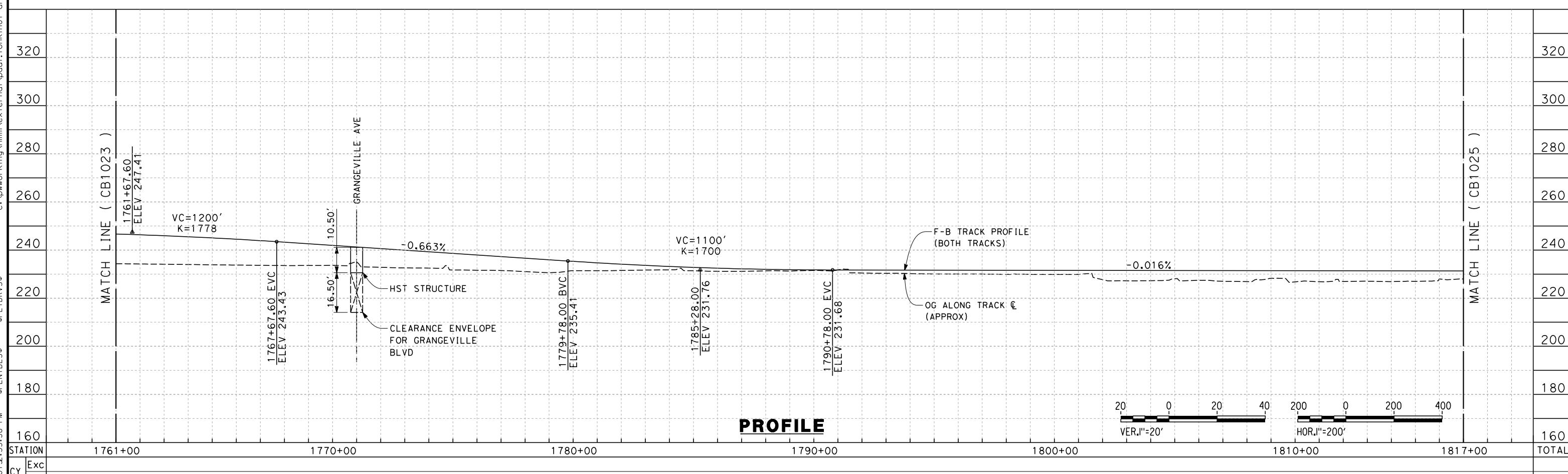
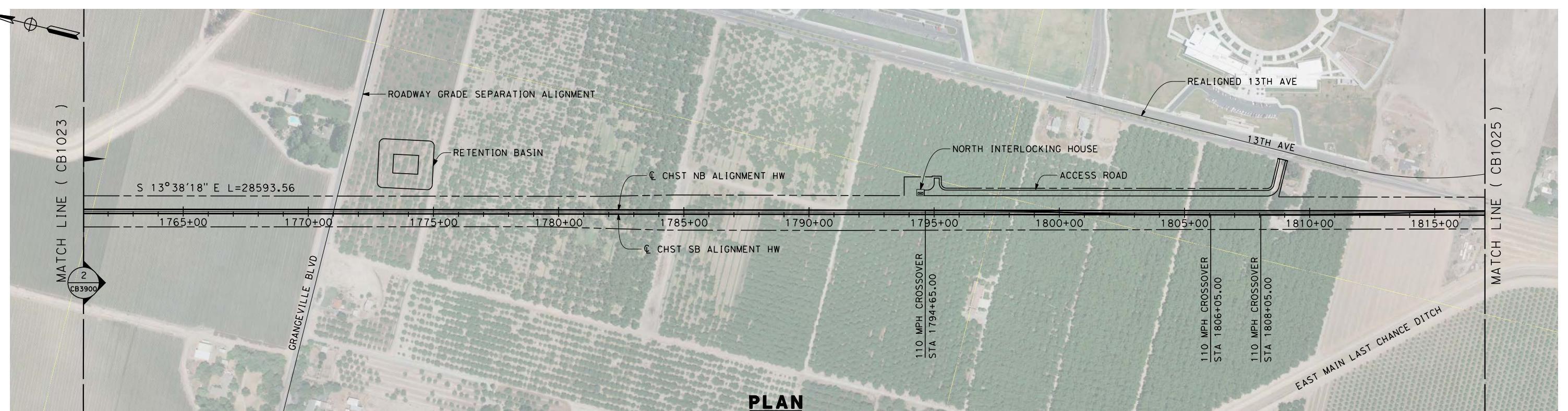
CHK

APP

DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-	-	-	DRAWING NO. CB1023
CHECKED BY G. MEJIA	-	-	-	SCALE AS SHOWN
IN CHARGE R. COFFIN	NOT FOR CONSTRUCTION	-	-	SHEET NO. 14 OF 29
DATE 12/31/13	-	-	-	-

DESCRIPTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1705+00 TO 1761+00
PLAN AND PROFILE



REV	DATE	BY
		CHK

DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

**RECORD SET 10
DESIGN SUBMISSION**

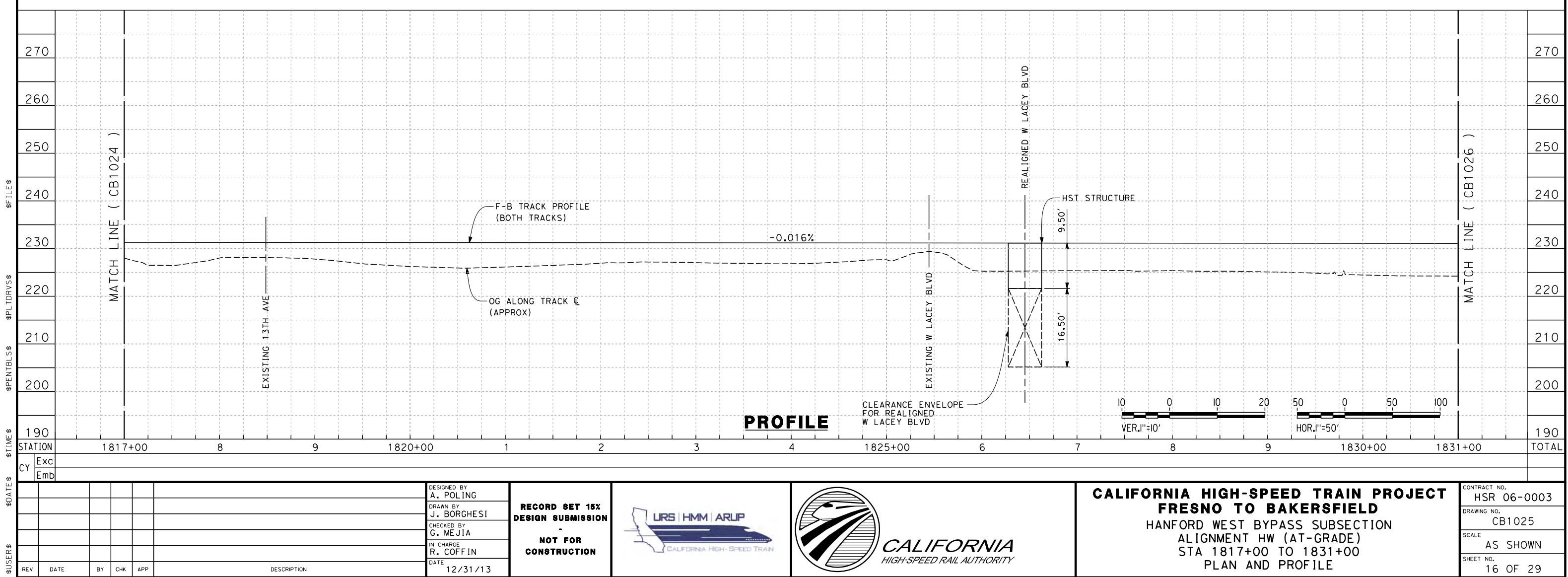
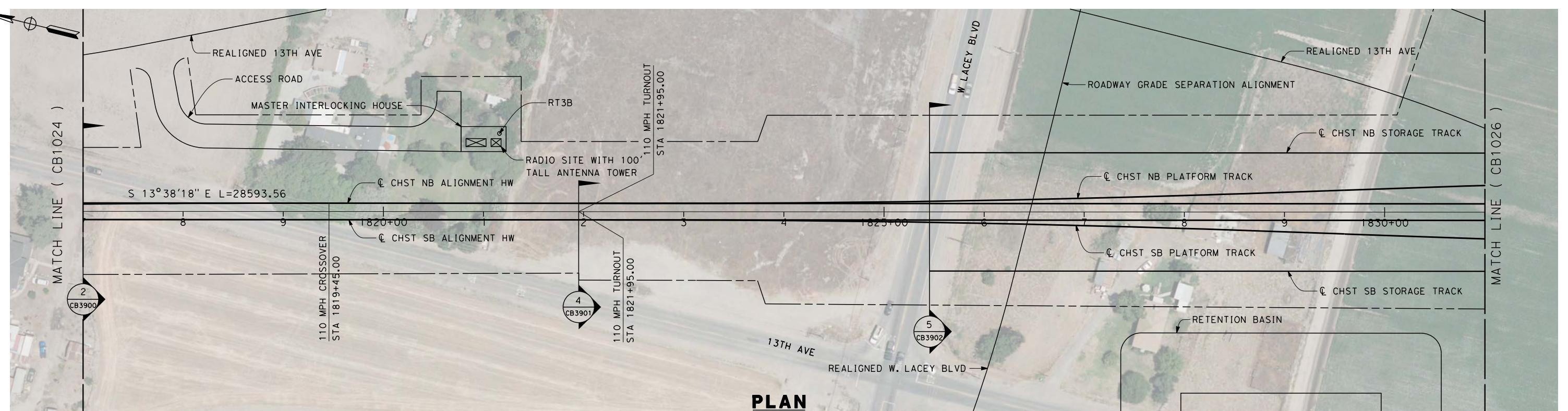
**NOT FOR
CONSTRUCTION**

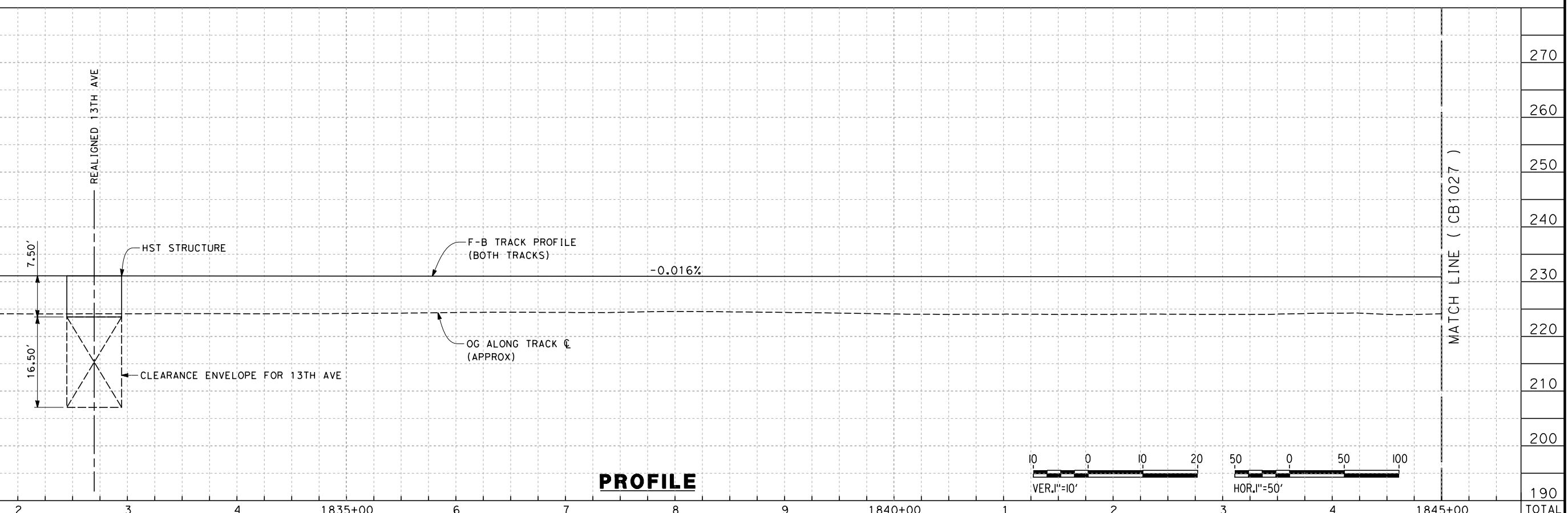
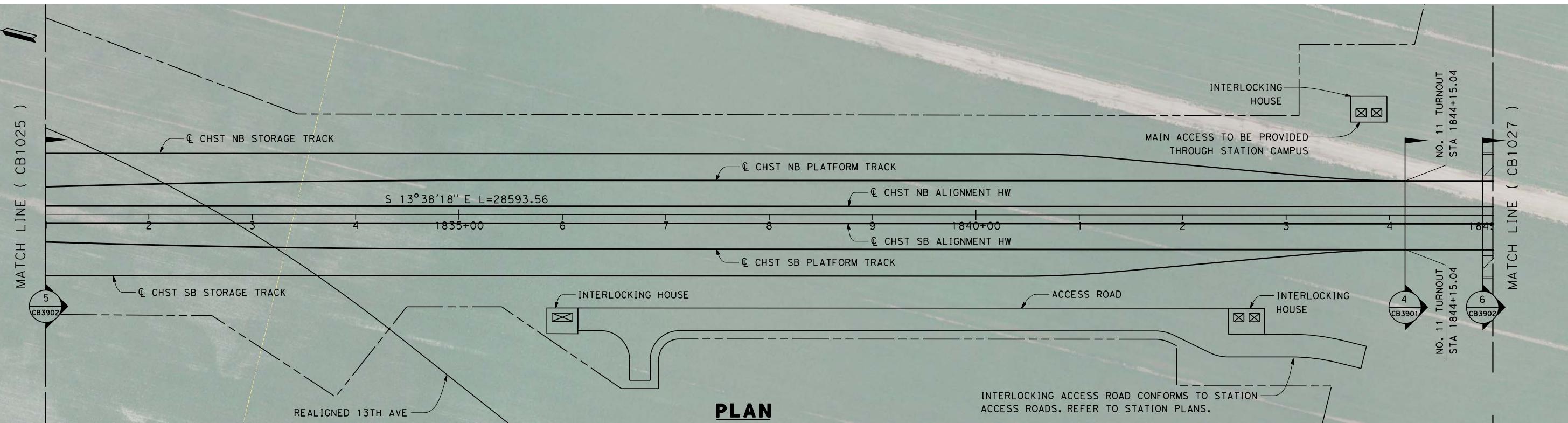


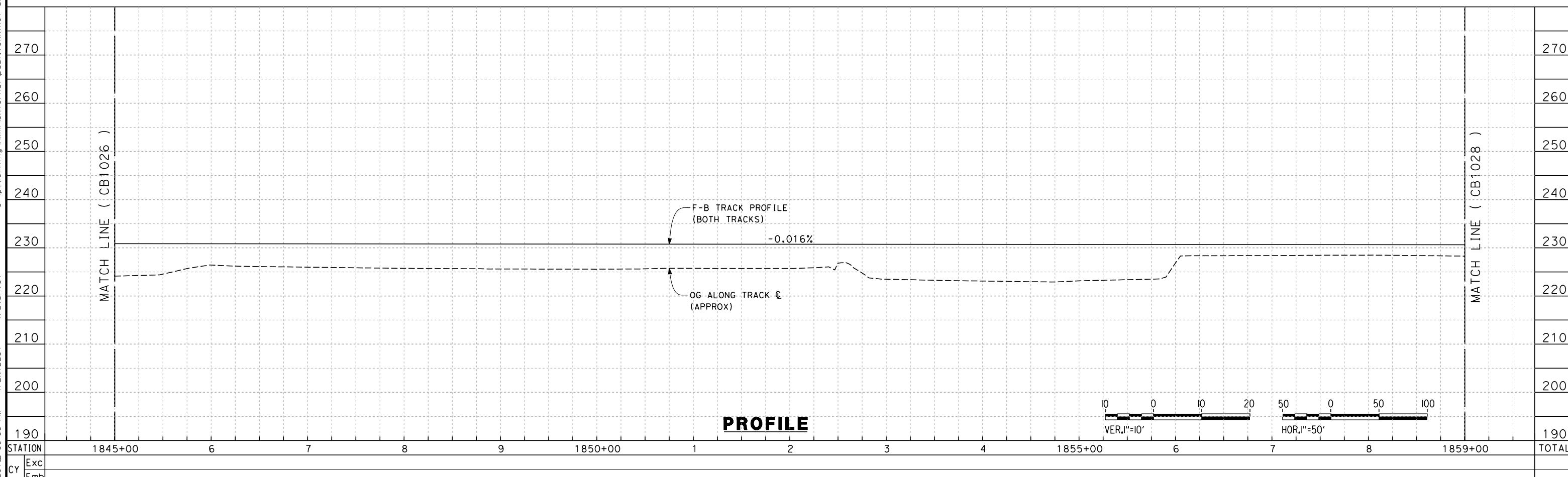
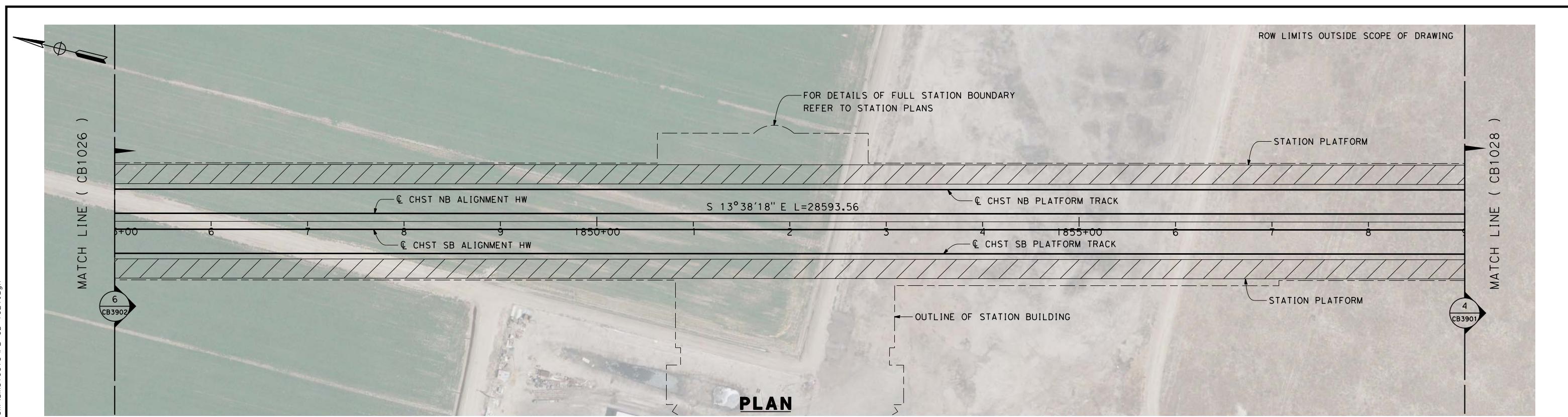
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1761+00 TO 1817+00
PLAN AND PROFILE

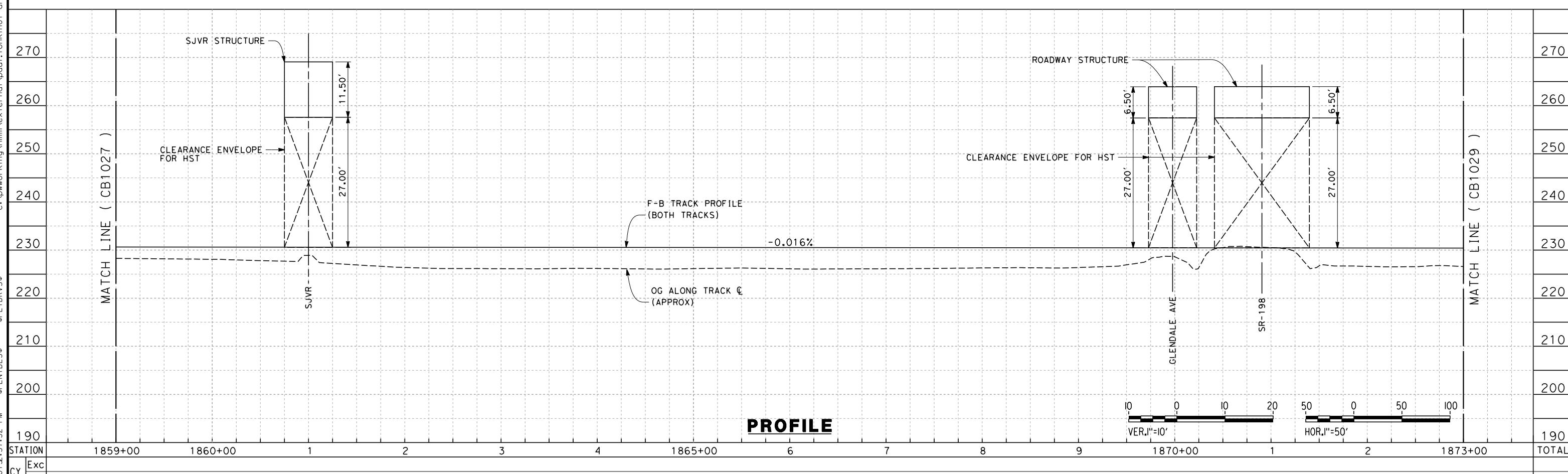
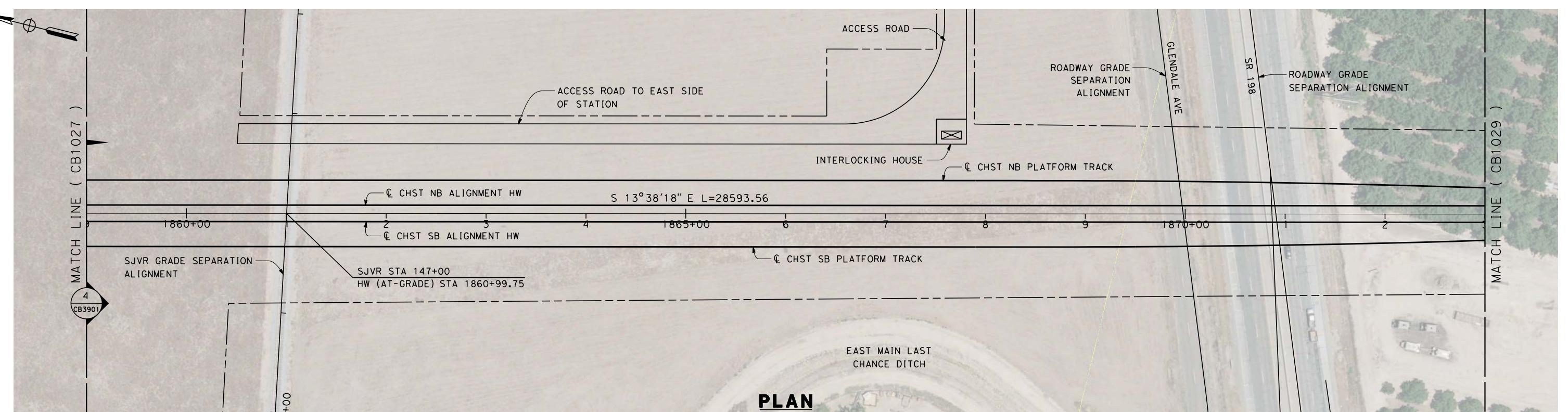
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1024
CALE AS SHOWN
HEET NO.
15 OF 29







12/12/2013 3:35 PM					DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
					DRAWN BY J. BORGHESI	-			HANFORD WEST BYPASS SUBSECTION	DRAWING NO. CB1027
					CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION			ALIGNMENT HW (AT-GRADE)	SCALE AS SHOWN
					IN CHARGE R. COFFIN				STA 1845+00 TO 1859+00	
					DATE 12/31/13				PLAN AND PROFILE	SHEET NO. 18 OF 29
REV	DATE	BY	CHK	APP	DESCRIPTION					



DESIGNED
A. PO
DRAWN BY
J. BO
CHECKED
G. ME
IN CHARGE
R. CO
DATE
12

RECORD SET 15%
DESIGN SUBMISSION

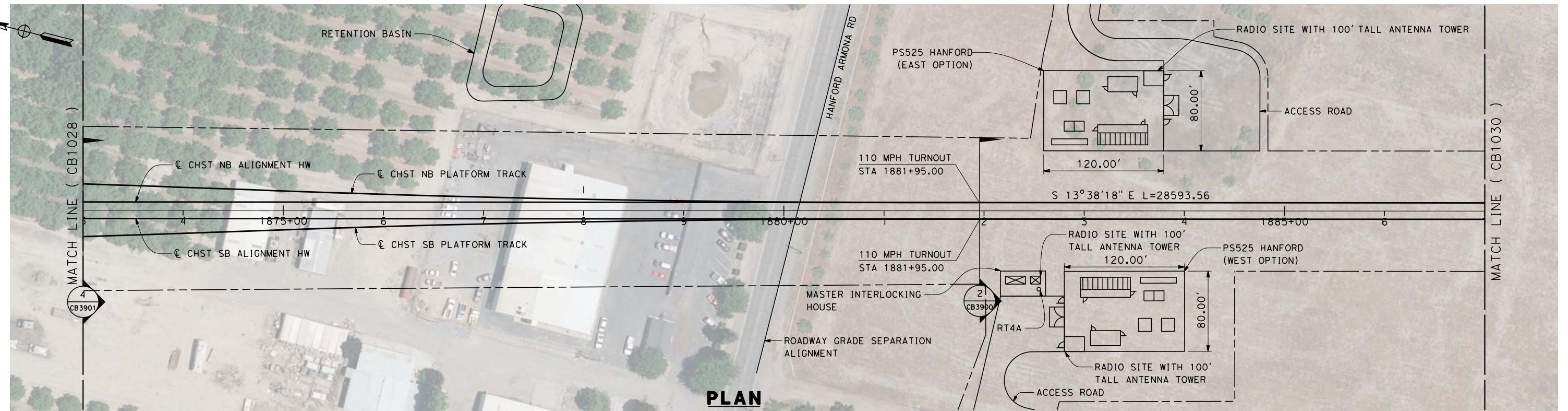
**NOT FOR
CONSTRUCTION**

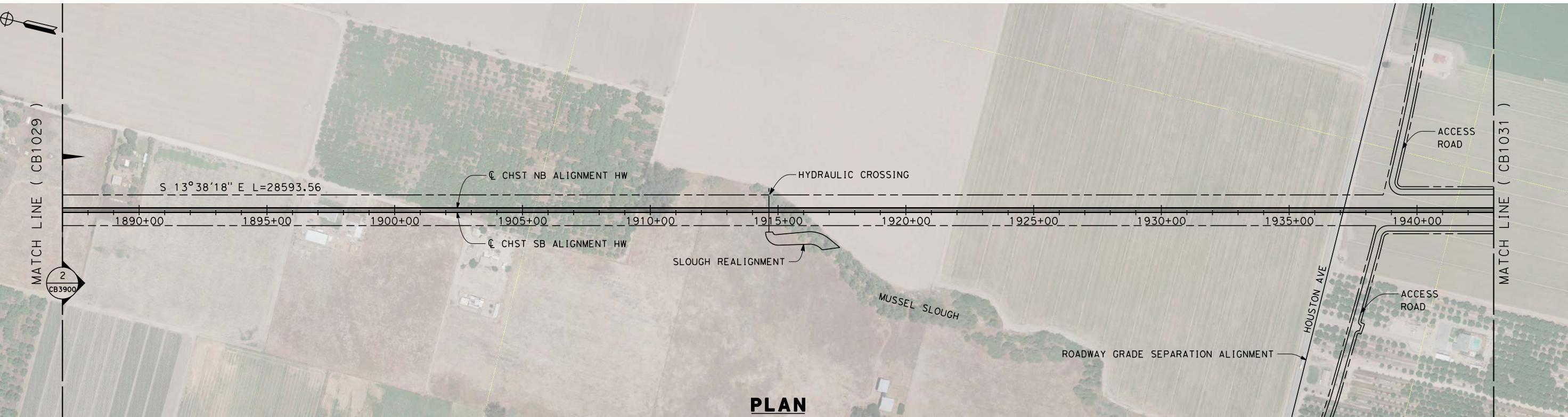


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

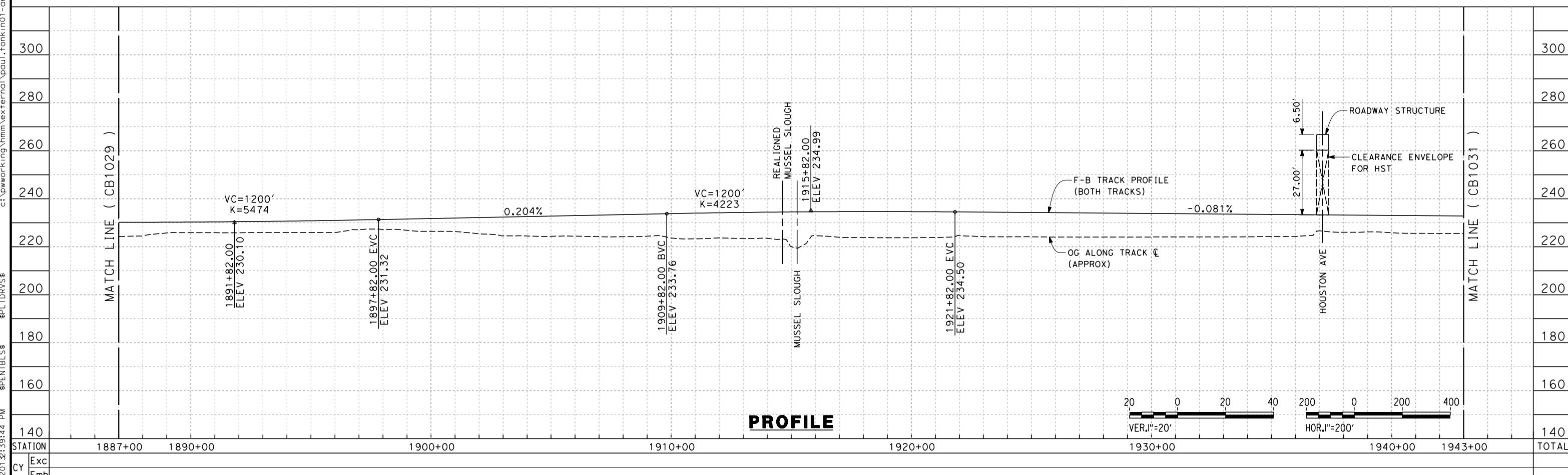
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1859+00 TO 1873+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1028
SCALE
AS SHOWN
SHEET NO.
19 OF 29





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REV	DATE	BY	CHK	APP	DESCRIPTION
					12/31/13

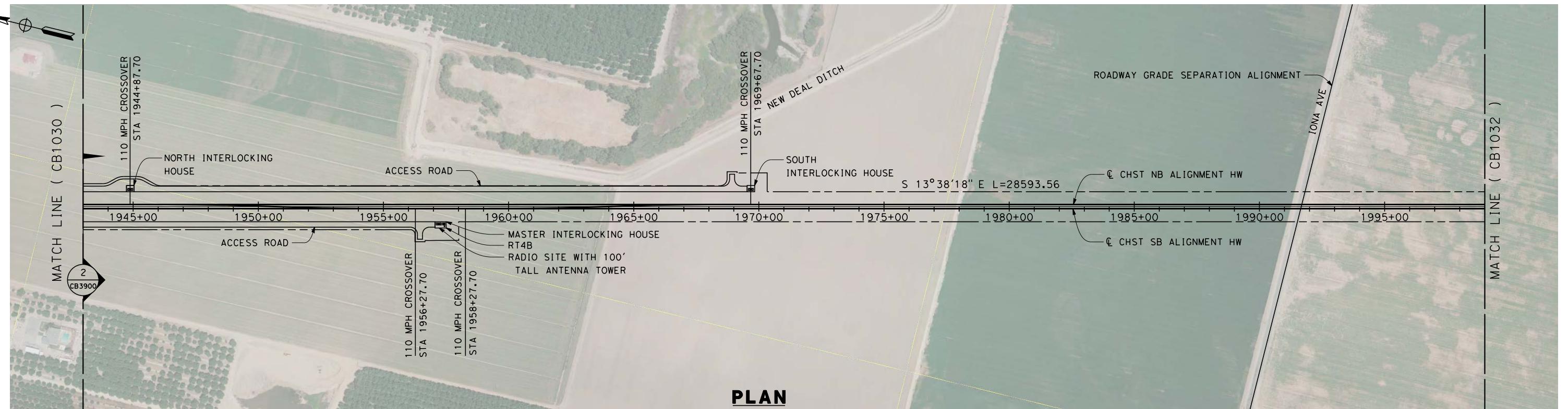
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

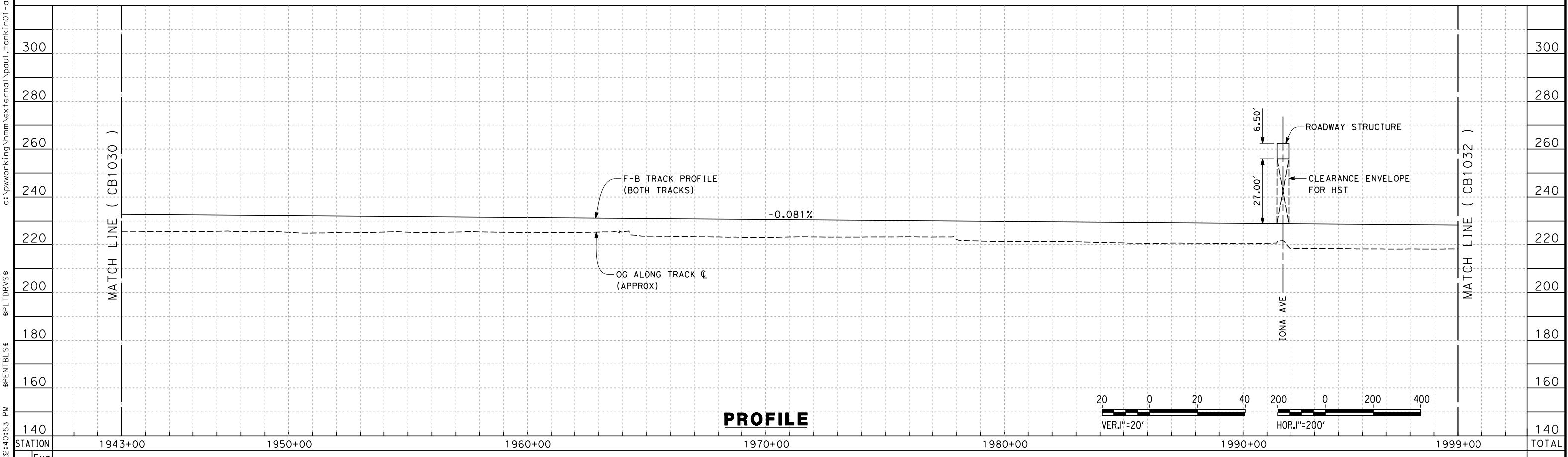


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1887+00 TO 1943+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1030
SCALE
AS SHOWN
SHEET NO.
21 OF 29



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REV DATE BY CHK APP DESCRIPTION

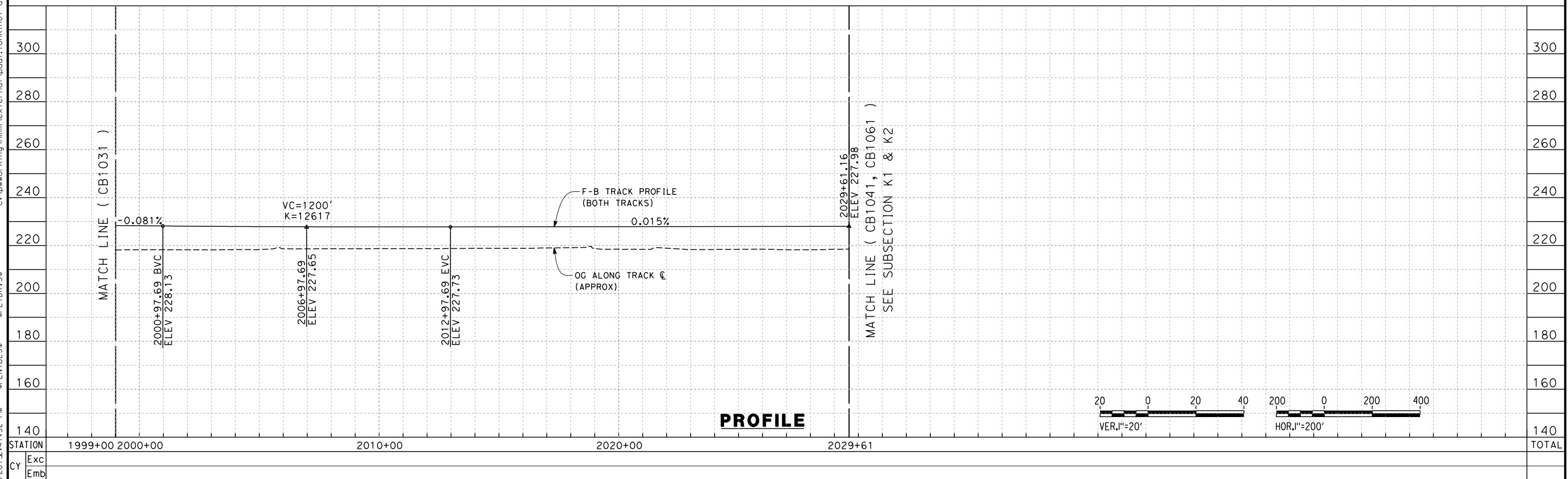
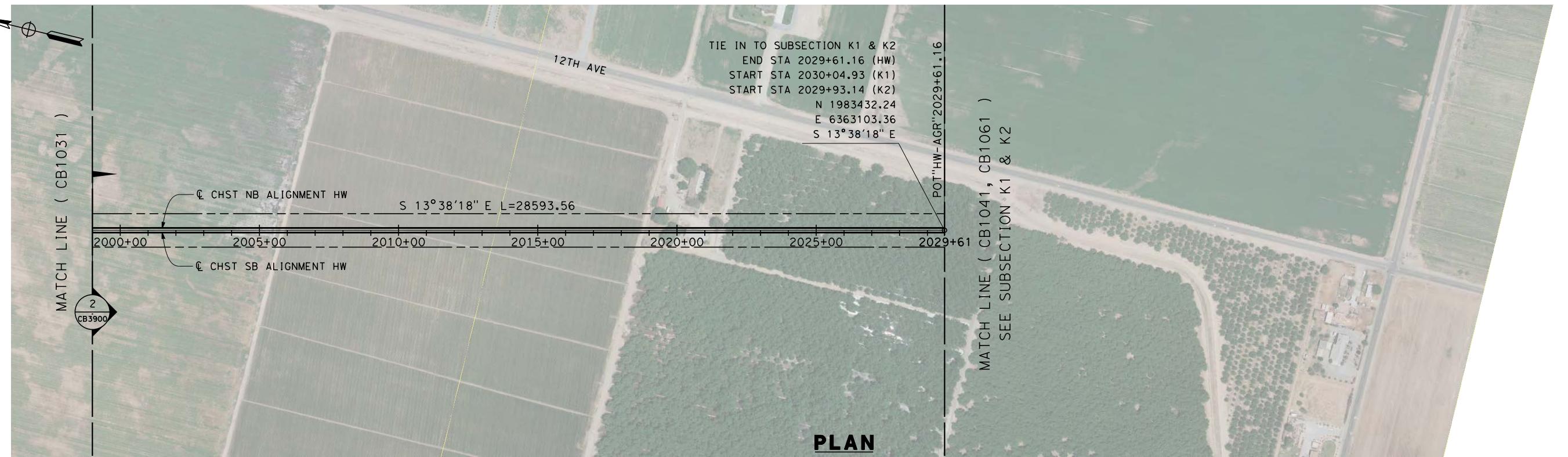
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE 12/31/13

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1943+00 TO 1999+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1031
SCALE
AS SHOWN
SHEET NO.
22 OF 29



DESCRIPTION

DESIGNED BY
A. POLI
DRAWN BY
J. BORG
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFEE
DATE
12/

**RECORD SET 10
DESIGN SUBMISSION**

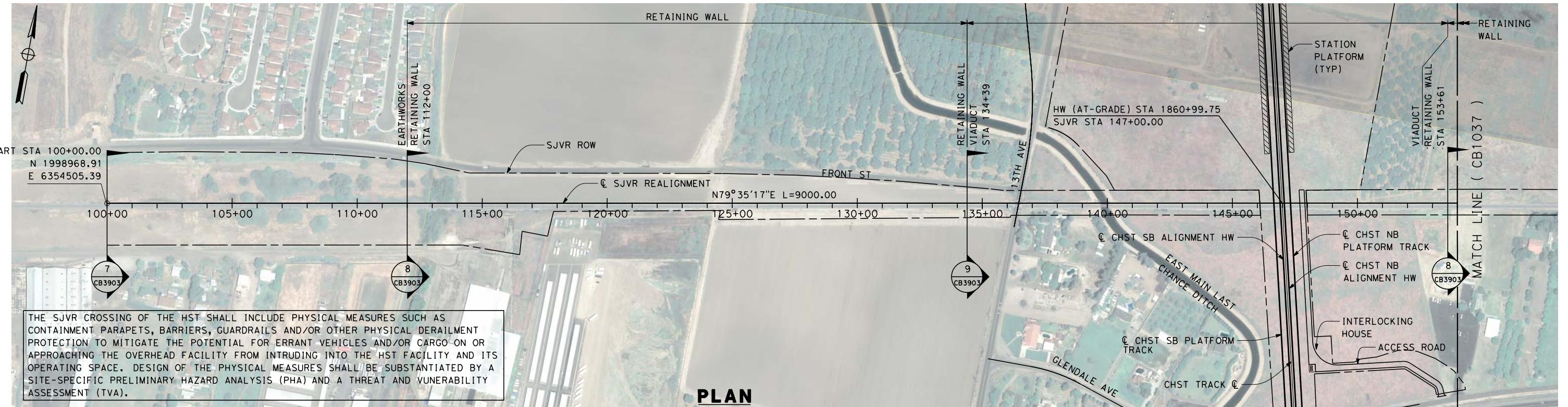
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CONSTRUCTION**



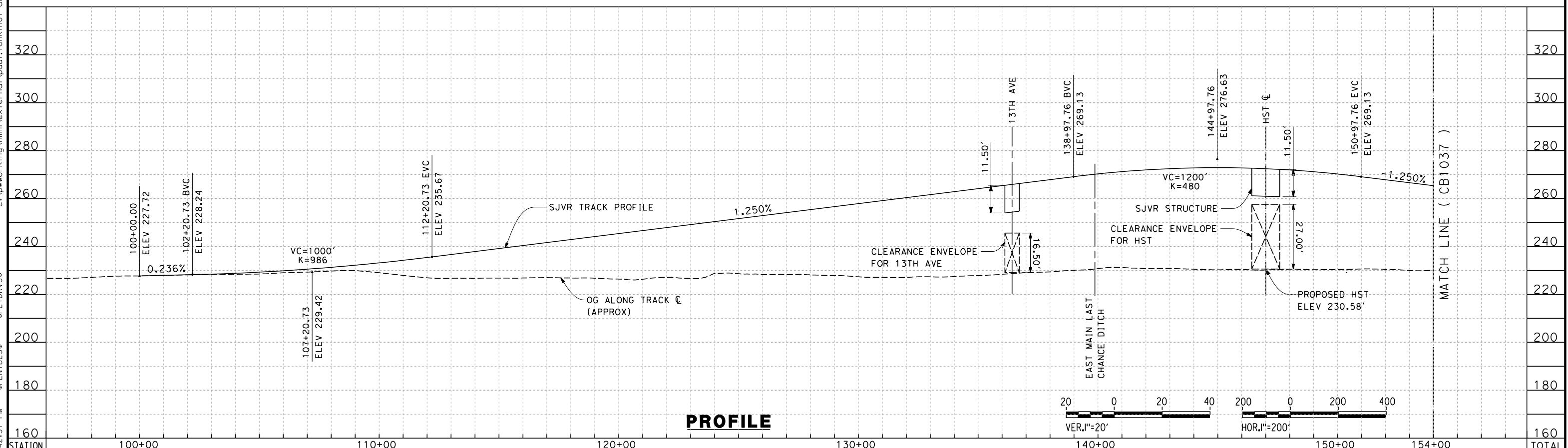
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
STA 1999+00 TO 2029+61
PLAN AND PROFILE

TRACT NO.
HSR 06-0003
AWING NO.
CB1032
ALE
AS SHOWN
EET NO.
23 OF 29



PLAN



PROFILE

STATION	100+00	110+00	120+00	130+00	140+00	150+00	154+00	TOTAL
CY	Exc							
	Emb							

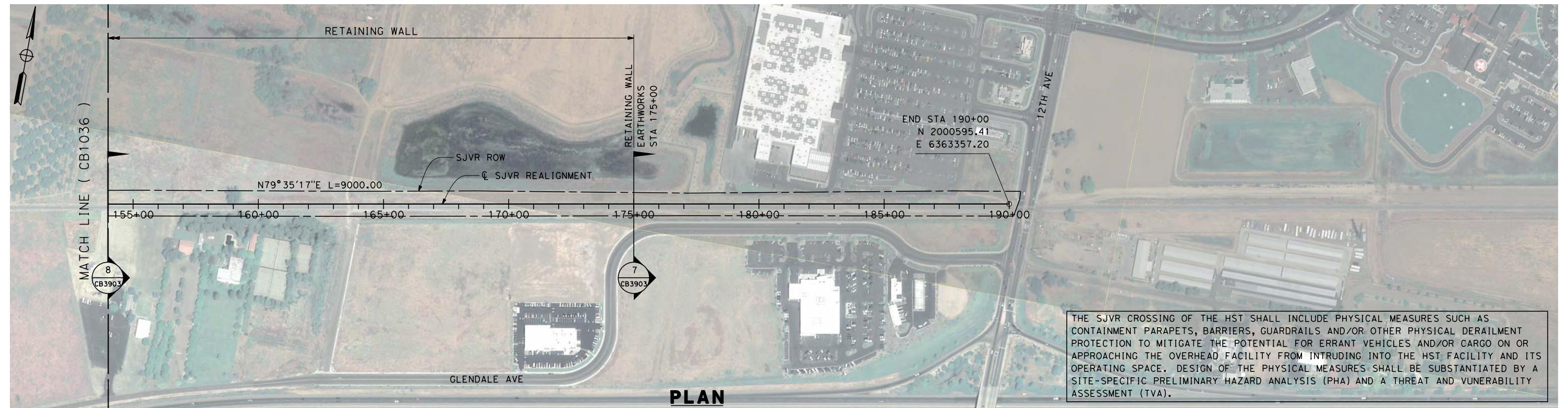
DESIGNED BY
A. POLING
DRAWN BY
J. BORGHESI
CHECKED BY
G. MEJIA
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

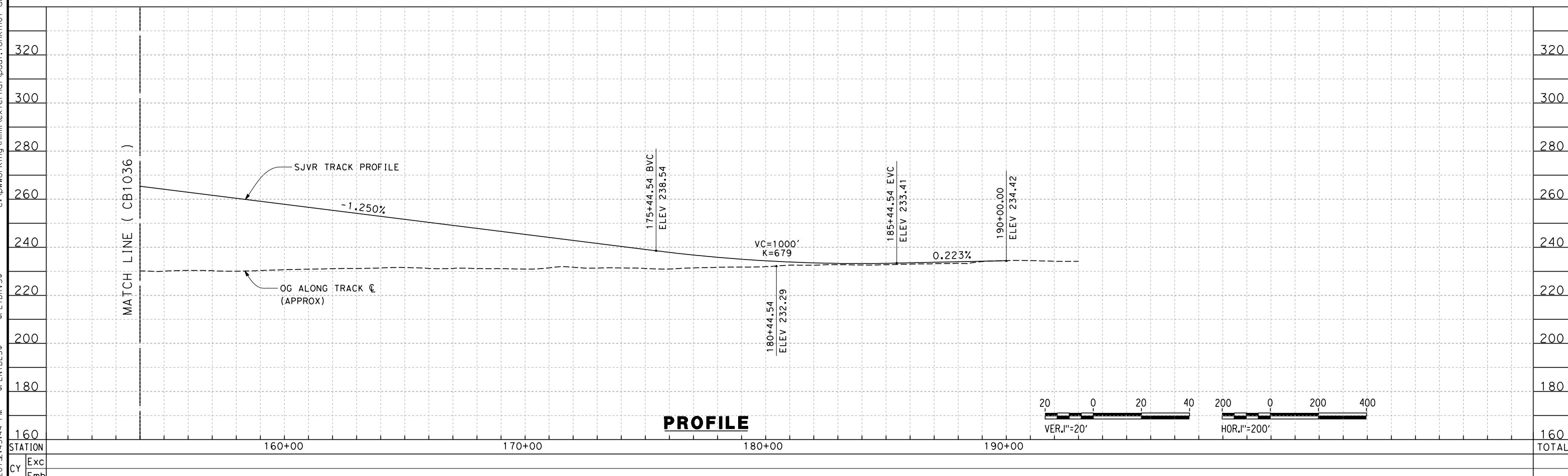


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
HANFORD WEST BYPASS SUBSECTION
SJVR SPUR REALIGNMENT
STA 100+00 TO 154+00
PLAN AND PROFILE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CB1036
SCALE
AS SHOWN
SHEET NO.
24 OF 29

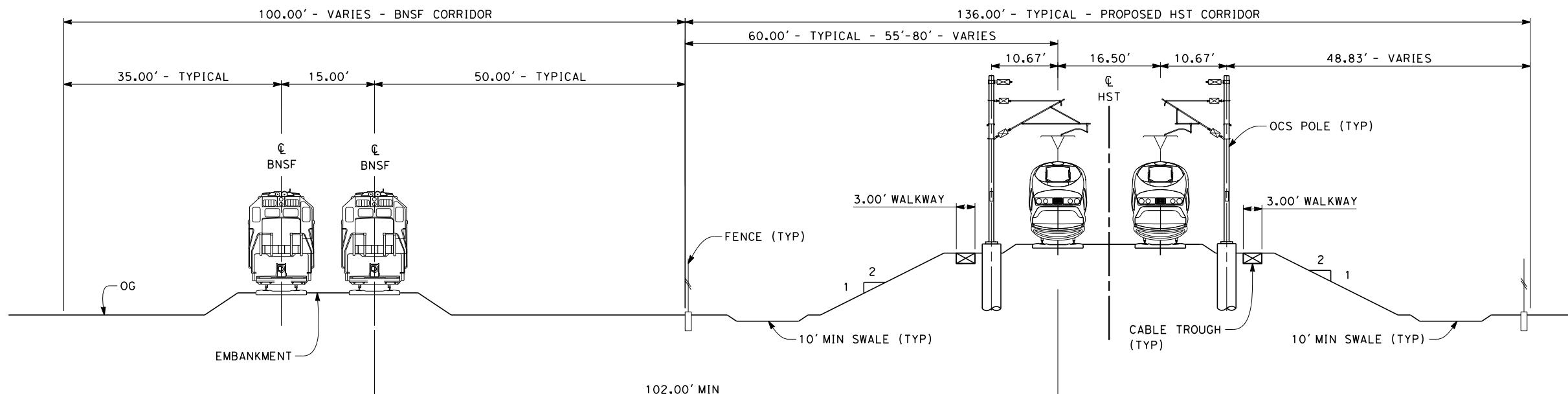


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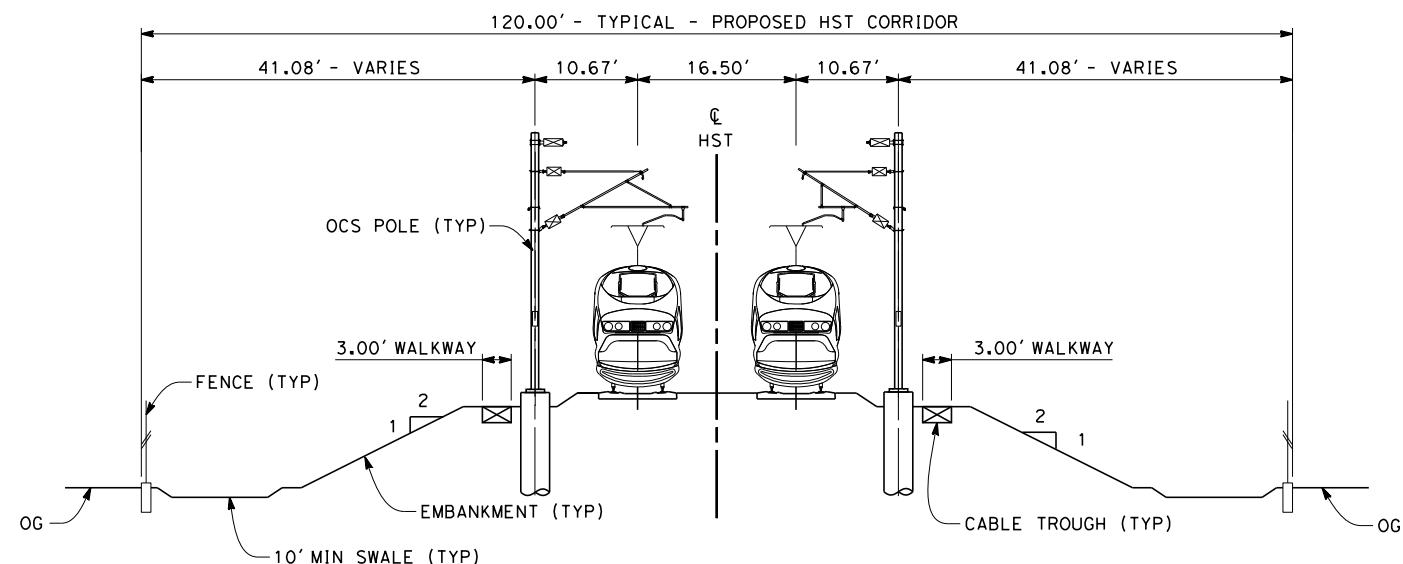
DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION	URS HMM ARUP	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD	CONTRACT NO. HSR 06-0003
DRAWN BY J. BORGHESI	-	CALIFORNIA HIGH-SPEED TRAIN	HANFORD WEST BYPASS SUBSECTION	DRAWING NO. CB1037
CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION		SJVR SPUR REALIGNMENT	SCALE AS SHOWN
IN CHARGE R. COFFIN			STA 154+00 TO 190+00	SHEET NO. 25 OF 29
DATE 12/31/13	DESCRIPTION		PLAN AND PROFILE	
REV	DATE	BY	CHK	APP

- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.



SECTION 1

TWIN TRACK ADJACENT TO BNSF
STA 1065+00 THROUGH 1262+00



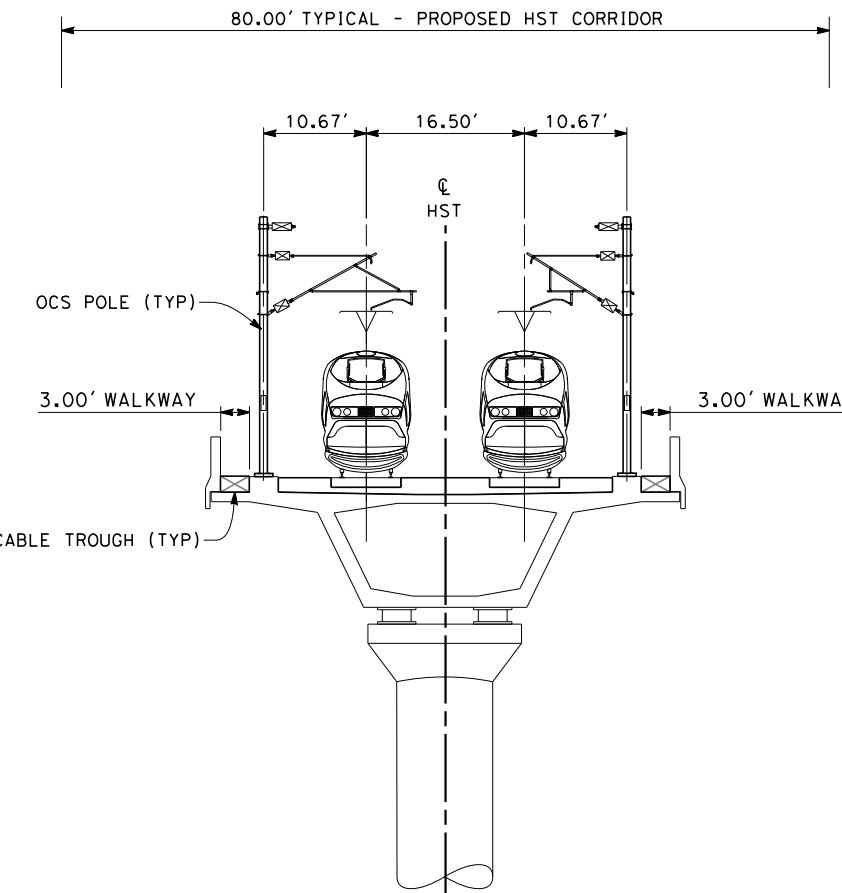
SECTION 2

TWIN TRACK AT GRADE
STA 1262+00 THROUGH 1407+25
STA 1493+00 THROUGH 1821+95
STA 1881+95 THROUGH 2029+61

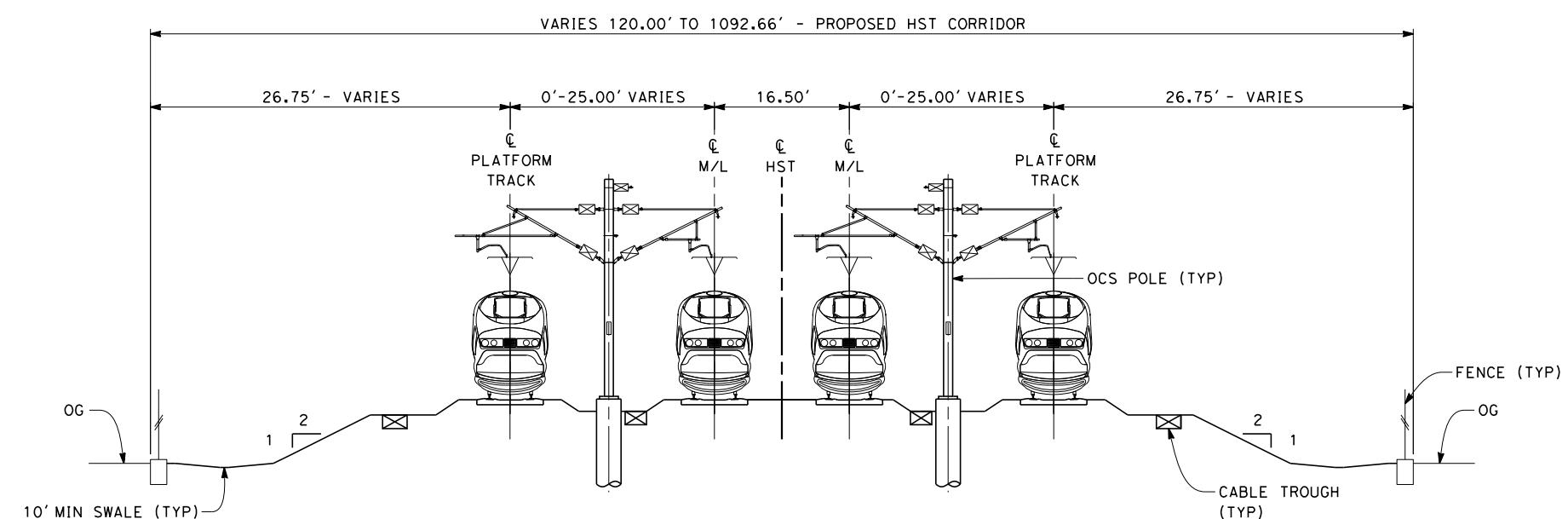


NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.
 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
 3. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.

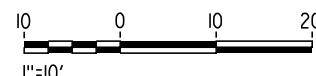


SECTION 3



SECTION 4

4 TRACK AT GRADE
STA 1821+95 THROUGH 1825+45
STA 1844+15 THROUGH 1844+90
STA 1859+00 THROUGH 1881+95

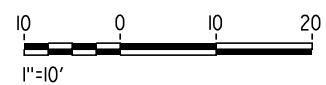
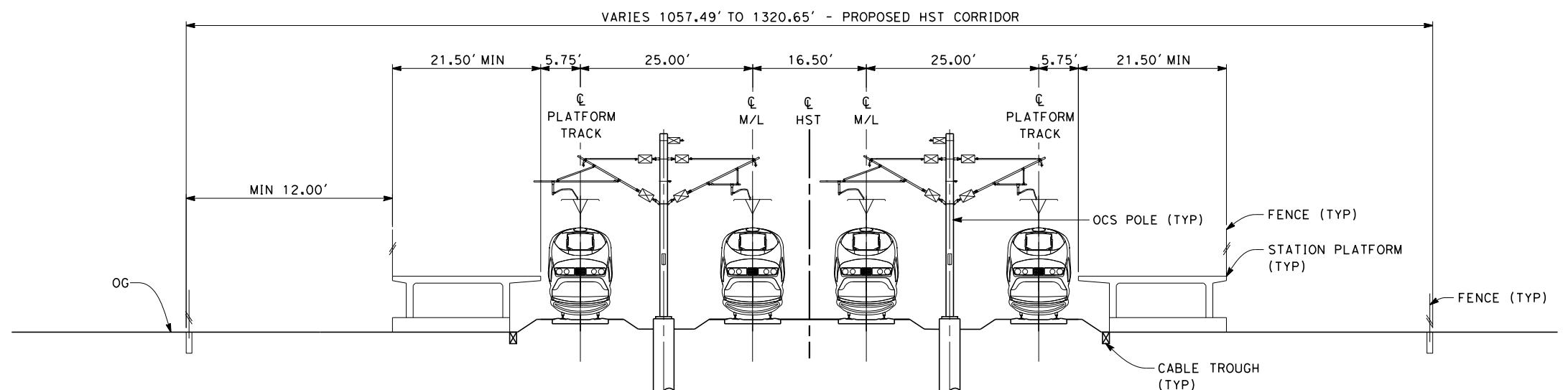
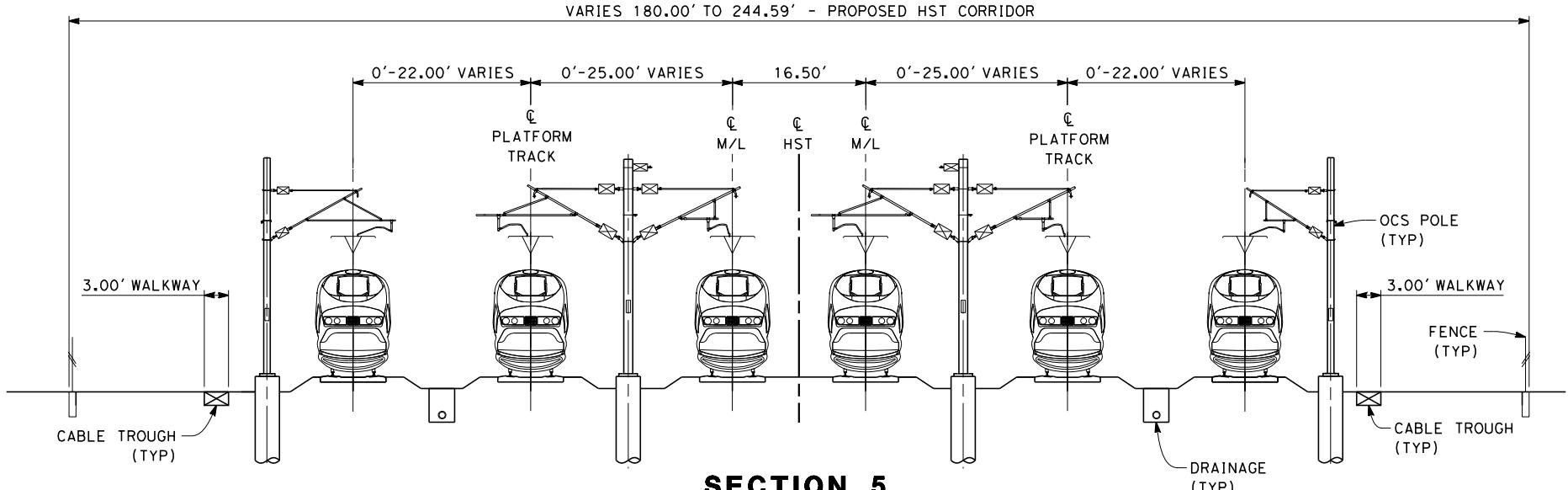


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

HANFORD WEST BYPASS SUBSECTION
ALIGNMENT HW (AT-GRADE)
TYPICAL SECTIONS

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CB3901
SCALE	AS SHOWN
SHEET NO.	27 OF 29

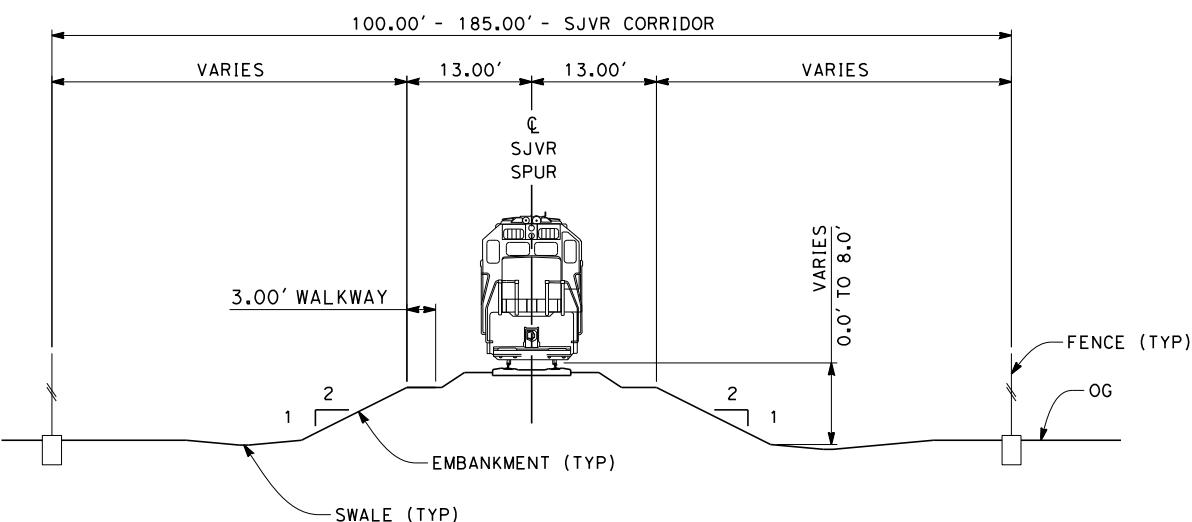
- NOTES:
1. TRACKFORM SHOWN IS INDICATIVE.
 2. SUPERELEVATION IS NOT SHOWN. THE AMOUNT OF APPLIED SUPERELEVATION IS SHOWN IN THE CURVE DATA TABLES.
 3. HST CORRIDOR WIDTH VARIES THROUGH THE STATION ACCORDING TO THE STATION FACILITIES PROVIDED. SEE STATION DRAWINGS FOR DETAILS.



				DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD WEST BYPASS SUBSECTION ALIGNMENT HW (AT-GRADE) TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003
				DRAWN BY J. BORGHESI	-				DRAWING NO. CB3902
				CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION				SCALE AS SHOWN
				IN CHARGE R. COFFIN					SHEET NO. 28 OF 29
REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13			

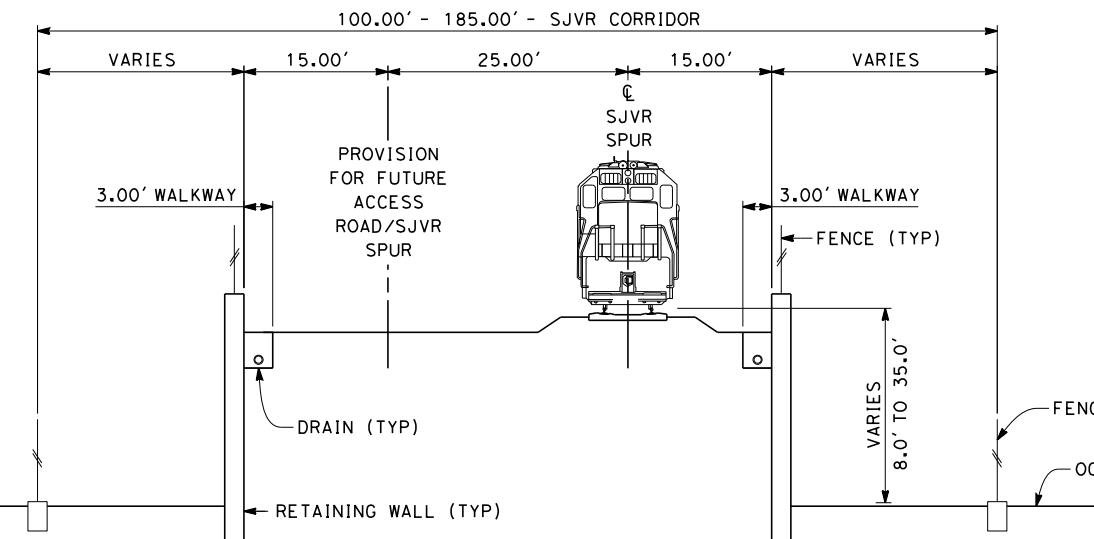
NOTES:

1. TRACKFORM SHOWN IS INDICATIVE.
2. FOR STRUCTURE DIMENSIONS SEE STRUCTURAL CROSS SECTIONS.
3. THE SJVR CROSSING OF THE HST SHALL INCLUDE PHYSICAL MEASURES SUCH AS CONTAINMENT PARAPETS, BARRIERS, GUARDRAILS AND/OR OTHER PHYSICAL DERAILMENT PROTECTION TO MITIGATE THE POTENTIAL FOR ERRANT VEHICLES AND/OR CARGO ON OR APPROACHING THE OVERHEAD FACILITY FROM INTRUDING INTO THE HST FACILITY AND ITS OPERATING SPACE. DESIGN OF THE PHYSICAL MEASURES SHALL BE SUBSTANTIATED BY A SITE-SPECIFIC PRELIMINARY HAZARD ANALYSIS (PHA) AND A THREAT AND VULNERABILITY ASSESSMENT (TVA).



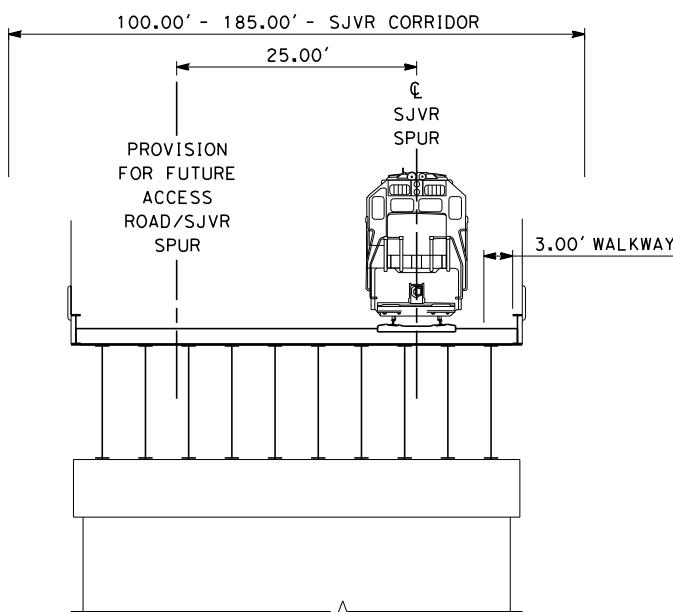
SECTION 7

1 TRACK AT GRADE
STA 100+00 THROUGH 112+00
STA 175+00 THROUGH 190+00



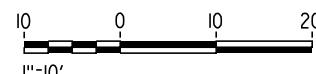
SECTION 8

1 TRACK - RETAINED EMBANKMENT
STA 112+00 THROUGH 134+39
STA 153+61 THROUGH 175+00



SECTION 9

1 TRACK - AERIAL STRUCTURE
STA 134+39 THROUGH 153+61



				DESIGNED BY A. POLING	RECORD SET 15% DESIGN SUBMISSION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD HANFORD WEST BYPASS SUBSECTION SJVR SPUR REALIGNMENT TYPICAL SECTIONS	CONTRACT NO. HSR 06-0003
				DRAWN BY J. BORGHESI	-				DRAWING NO. CB3903
				CHECKED BY G. MEJIA	NOT FOR CONSTRUCTION				SCALE AS SHOWN
				IN CHARGE R. COFFIN					SHEET NO. 29 OF 29
REV	DATE	BY	CHK	APP	DESCRIPTION	12/31/13			